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From: Sent: To: 78544 Subject:

Whiteman, Brian Thursday, July 28, 2005 8:39 AM STIC-Biotech/ChemLib seq search

10/782,899 2/23/04 Fujimori et al.

STIC-Biotech/ChemLib

nucleotides 1-192 of SEQ ID NO: 1, nucleotides 472-600 of SEQ ID NO: 1 1) the commercial databases, and the issued and published US application databases

Thank you,

Brian Whiteman Remsen, 2D14 mail box 2C18 Patent Examiner - Art Unit 1635 United States Patent and Trademark Office (571) 272-0764



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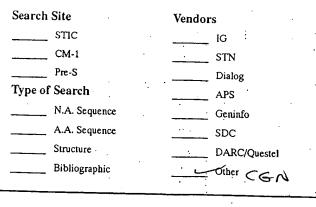
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PRIOR APPLICATION NUMBER: US 60/211,940PRIOR FILING DATE: 2000-06-15PRIOR FILING DATE: 2000-07-07PRIOR FILING DATE: 2000-07-07PRIOR FILING DATE: 2000-07-25PRIOR FILING DATE: 2000-17-21NUMBER OF SEQ ID NOS: 22037SEQ ID NO 19115LENGTH: 3520JENGTH: 3520OBENTARE: DAAORGANISM: HOMO: SAPIELSEQ ID NO 19115LENGTH: 3520JENGTH: 3520Deer Local Similarity 54.1%; Pred. No. 4.2;Matches 60; CONSErVALIVE 0; Mismatches 51; Indels 0; Gaps 0;OVA COTTACACTAGATACATACATACACACACACACACACACACA	CCCCCCARCICATION CONTINUES	: Bauer, INVENTION FPLICATION FPLICATION ILLING DATION LLCATION 1 LLCATION 1 LLCATION 1 LLCATION 1 LLCATION 1 LLCATION 1 F1 F1 F1 F1 F1 F1 F1 F1 F1 F1 F1 F1 F1	-15 9; 0 9; 0 9; 0 9; 0 9; 0 9; 0 9; 0 15 9; 0 15 15 15 15 15 15 15 15 15 15 15 15 15
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CUMMENT INFORMATION:APPLICANT: Bayer Healthcare LLCAPPLICANT: Bayer Healthcare LLCAPPLICANT: Bayer HealthcarAPPLICANT: Burgess, ChrisAPPLICANT: Burgess, ChrisAPPLICANT: Burgess, ChrisAPPLICANT: Burgess, ChrisAPPLICANT: Harvey, JeameAPPLICANT: Lechner, John F.APPLICANT: Li. ZhengAPPLICANT: Li. ZhengTITLE OF INVENTION: Identification and Verification of Methylation Marker SequencesTITLE OF INVENTION NUMBER: US/10/737,082CURRENT APPLICATION NUMBER: US/10/737,082CURRENT FILING DATE: 2003-12-16NUMBER OF SEQ ID NOS: 300PRIOR FILING DATE: 2003-12-16NUMBER OF SEQ ID NOS: 300SOFTMARE: Patentin version 3.2SEQ ID NO 70LENGTH: 354592 47662 AGCAGTTCACTTGAGACTTTCTCACGGAAAGGAGGTGCGATACAGTTGGTGGTGGTAGTCTTAT 47721 ö ö GTCCAACCGT 107 813 Arccircaccrecicarciarcircircircircicaccicitatic 872 75 16 AGCGATTACTTCGAGCATTACTGACGACAAAGACCCCCGACGATGGTCGGGGGTCTTTT 0; Gaps Gaps ö DB 20; Length 344805; 25; 33; Indels Indels 47722 ATTTGCTACGTGCTCATGTGTGTGTGTGATGAATGCAG 47762 76 TGTTGTGGTGCTGTGTGTGTGTGTGCCGTATTATTCCG 116 45; Best Local Similarity 59.8%; Pred. No. 4.1; Matches 49; Conservative 0; Mismatches Score 29; DB Pred. No. 25; 0; Mismatches APPLICANT: AstraZeneca AB TITLE OF INVENTION: Methods FILE REFRENCE: ASZD-P02-251 CURRENT FILLNG ANTE: 2004-02-13 CURRENT FILING DATE: 2004-02-13 FRIOR APPLICATION NUMBER: 09/463,844 FRIOR APPLICATION NUMBER: 09/463,844 PRIOR APPLICATION NUMBER: 09/463,844 PRIOR APPLICATION NUMBER: 09/463,844 PRIOR APPLICATION NUMBER: 09/463,844 PRIOR APPLICATION NUMBER: 09/463,946 PRIOR APPLICATION NUMBER: 9716162.4 PRIOR APPLICATION NUMBER: 9716162.4 PRIOR APPLICATION NUMBER: 9716162.4 PRIOR APPLICATION NUMBER: 9716162.4 PRIOR APPLICATION NUMBER: 09759,986 PRIOR APPLICATION NUMBER: 09/535,986 PRIOR APPLICATION NUMBER: 00/535,986 48 ACCCCGACCGAGATGGTCGGGGTCTT 108 ATTATTCCGGACTAGTTCAGCG 129 873 Arcaargeeracraergeace 894 Sequence 70, Application US/10737082 Publication No. US20050130170A1 GENERAL INFORMATION: ; Sequence 1, Application US/10779271
; Publication No. US20040220387A1
; GENERAL INFORMATION: SOFTWARE: Patentin version 3.2 SEQ ID NO 1 LENGTH: 344805 22.5%; 55.4%; Query Match 22.5 Best Local Similarity 55.4 Matches 56, Conservative ; TYPE: DNA ; ORGANISM: Homo sapiens US-10-779-271-1 US-10-737-082-70 US-10-779-271-1 RESULT 10 RESULT 11 8 å 8 g 8 q 8 đ ö 48.ACCCCGACCGAGATGGTCGGGGTCTTTTTGTTGTGGTGCTGTGTGACGTGTTGTCCAACCGT 107 769 Arccercacercerecearererererererereresecereratere 0; Gaps 22.6%; Score 29.2; DB 18; Length 1836; Length 1013; Score 29.2; DB 18; Length Pred. No. 3.4; 0; Mismatches 33; Indels APPLICANT: VOSS, FRANK APPLICANT: VOSS, FRANK APPLICANT: Mund, Thomas APPLICANT: Albayrak, Thuur APPLICANT: Allayrak, Thuur APPLICANT: Klein, Matthias APPLICANT: Bauer, Manuel TITLE OF INVENTON! Appotosis-Inducing DNA Sequences FILE REFERENCE: 2923-0133 CURRENT APPLICATION NUMBER: US/10/332, 859 CURRENT FILING DATE: 2003-01-14 PRIOR APPLICATION NUMBER: PC7/EP01/08170 PRIOR FILING DATE: 2003-01-13 APPLICANT: Bauer, Manuel TITLE OF INVENTION: Apoptosis-Inducing DNA Sequences TITLE REFERNCE: 2923-0133 CURRENT APPLICATION NUMBER: US/10/332,859 CURRENT FILING DATE: 2003-01-14 PRIOR APPLICATION NUMBER: PCT/EP01/08170 PRIOR APPLICATION NUMBER: PCT/FP01/08170 Sequence 232, Application US/10332859 PUDLICATION NO. US20040088746A1 GENERAL INFORMATION: APPLICANT: Grimm, Stefan APPLICANT: Schoenfeld, Nicole APPLICANT: Schoenfeld, Nicole APPLICANT: Cramer, Ursula APPLICANT: Cramer, Ursula Sequence 17, Application US/10332859 Publication No. US20040089746A1 GENERAL INFORMATION: APPLICANT: Grimm, Stefan APPLICANT: Schoenfeld, Nicole APPLICANT: Schoenfeld, Nicole APPLICANT: Camer, Ursula APPLICANT: Gewies, Andreas 108 ATTATTCCGGACTAGTTCAGCG 129 829 ATCAATGCCTACTTGGTGGACG 850 22.6%; 59.8%; NUMBER OF SEQ ID NOS: 355 SOFTWARE: Patentin version 3.2 SEQ ID NO 232 LENGTH: 1013 NUMBER OF SEQ ID NOS: 355 SOFTWARE: Patentin version 3.2 SEQ ID NO 17 LENGTH: 1836 Voss, Frank Mund, Thomas Albayrak, Timur Gille, Hendrik Klein, Matthias Query Match 22.64 Best Local Similarity 59.81 Matches 49; Conservative TYPE: DNA ORGANISM: Mus musculus ; TYPE: DNA ; ORGANISM: Mus musculus US-10-332-859-232 US-10-332-859-232 US-10-332-859-17 US-10-332-859-17 APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: Query Match RESULT 8 đ δ q

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RESULT 12 US-10-765-790-70 Sequence 70, Application US/10765790 Publication No. US20050130172A1 SERVERAL INFORMATION: APPLICANT: Bayer Healthcare LLC APPLICANT: Beard, Chris APPLICANT: Burgess, Chris	48 ACCCCGACCGAGATGGTCGGGGGTCTTTTGTTGTGGGGGGTGTGTG
APPLICANT: Gamuon, Allison APPLICANT: Harvey, Jeanne APPLICANT: Lechner, John F. APPLICANT: Lichner, John F. APPLICANT: Li, Zheng TITLB OF INVENTION : Identification and Verification of Methylation Marker Sequences FILB REFRENCE: 1657/2035 CURRENT FPLICATION NUMBER: US/10/765,790 CURRENT FPLICATION NUMBER: US/10/765,790 CURRENT FPLICATION NUMBER: US 10/737,082 FRIDR APPLICATION NUMBER: US 10/737,082 FRIDR APPLICATION NUMBER: US 10/737,082 FRIDR APPLICATION NUMBER: US 10/737,082 FRIDR FPLING DATE: 2003-12-16 NUMBER OF SEQ ID NOS: 300 SEQ ID NOS: 300 SEQ ID NO 70 LENGTH: 354592 T TYPE: DNA CORANISM: PAGE OF SEC	RESULT 14 US-10-425-115-152385/c Sequence 152385, Application US/10425115 Sequence 152385, Application US/10425115 Sequence 152385, Application US/004214272A1 GENERAL INFORMATION: APPLICANT: La ROSA, Thomas J. APPLICANT: La ROSA, Thomas J. APPLICANT: Cao, Yongwei TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With TITLE OF INVENTION: Plants FILE REFERENCE: 39-21(5322) B CURRENT FILING DATE: 2003-04-28 NUMBER OF SEQ ID NOS: 369326 SEQ ID NO 152395
Query Match22.5%Score 29; DB 22; Length 354592;Best Local Similarity55.4%; Pred. No. 25;DB 22; Indels0; GapsMatches56; Conservative0; Mismatches45; Indels0;Qy16 AGGATTACTTCGAGGATACTGACGACAAAGACCCCCACCGAGATGCTCGGGGGTTTTT75Db50053AGCGTTCCTTGAGGCTTTCTCCAGGAAAGAGGAGGAGTAGGTGGTGGTTAT50112Qy76 TGTTGTGGGGCTTTCTCCAGGGAAAGAGGAGGAGGATACAGTTGGTGGTGGTTTTTT50112Qy76 TGTTGTGGGGCTTTCTCCAGGGAAAGAGGAGGAATACAGTTGGTGGTGGTGGTTAT50113Db50113ATTTGCTAGGGGCTTGTTGTCGATGATGATGGCGG50153Db50113ATTTGCTAGGTGCTCATGTGTGGTGATGATGCAG50153	<pre> LENGTH: 1043 TYPE: DNA ORGANISM: Zea mays ORGANISM: Zea mays TRYE: INFORMATION: Clone ID: MRT4577_70558C.1 OTHER INFORMATION: Clone ID: MRT4577_70558C.1 US-10-425-115-152385 Query Match</pre>
RESULT 13 US-10-332-859-317 Publication No. U520040088746A1 Fublication No. U520040088746A1 GENRRAL INFORMATION: APPLICANT: Grimm, Stefan APPLICANT: Schoenfeld, Nicole APPLICANT: Schoenfeld, Nicole APPLICANT: Statulis, Erik APPLICANT: Cramer, Ursula APPLICANT: Camer, Ursula APPLICANT: Gewies, Andreas APPLICANT: Gewies, Andreas APPLICANT: Gewies, Andreas APPLICANT: Gewies, Andreas APPLICANT: Geile, Hendrik APPLICANT: Alle, Hendrik APPLICANT: Alle, Hendrik APPLICANT: Klein, Matthias APPLICANT: Bauer, Manuel TITLE OF INVENTION: Apoptosis-Inducing DNA Sequences	<pre>79 TGTGGTGCTGCTGGGGGTGTTGTCGGG 117 79 TGTGGTGCTGGGGGTGTCTCCAACCGTATTATTCCGG 117 981 TCCTGAGCATCGGGGTCTTCACGAAACCTCCCG 943 981 TCCTGAGCATCGGGGGTCTTCACGAAACCTCCCG 943 591 TCCTGAGCATCGGGGGTCTTCACGAAACCCCCAACTTCCCG 943 500 - 903 - 410 - 31 500 - 903 - 410 - 31 500 - 903 - 410 - 31 500 - 903 - 410 - 31 500 - 903 - 410 - 31 500 - 910 - 910 500 - 910 - 910 500 - 910 - 910 500 - 910 - 910 500 - 910 - 910 500 - 910 - 910 500 - 910 - 910 500 - 910 - 910 500 - 910 - 910 500 - 910 - 910 500 - 910 - 910 500 - 910 - 910 500 - 910 - 910 500 - 910 - 9</pre>

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			A A A A A A A A A A A A A A A A A A A	F X X X X X X X X X X X X X X X X X X X
<pre>GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd nucleic search, using sw model August 5, 2005, 21:17:03 ; Search time 206.159 Seconds (without alignments) 3704.166 Million cell updates/sec</pre>	US-10-782-899-1_COPY_472_600 score: 129 : 1 tgaccttctgctcgtagcgatattccggactagttcagcg 129 table: IDENTITY_NUC Gapop 10.0 , Gapext 1.0 : 4390206 seqs, 2959870667 residues mber of hits satisfying chosen parameters: 8780412 DB seq length: 200000000 DB seq length: 200000000	-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries	<pre>4:* *:* *:* *:* *:* *:* *:* *:* *:* *:*</pre>	22.2 2184 11 ABD03007 22.0 936 2 AAT79329 22.0 936 2 AAT79329 22.0 936 8 AAT79329 22.0 936 8 AAT79329 22.0 2451 6 AAD58914 22.0 2451 6 ABZ12259 21.9 599 12 ACH79902 21.9 1152 5 AAS73582 21.9 1152 5 AAS73582

infant formula, pet food or a pharmaceutical compositi from tablets, liquid bacterial suspensions, dried oral t, wet oral supplement, dry tube feeding or wet tube f eful in DNA arrays or chips to carry out analysis of the Bifidobacterium gene. AB031844 to AB031850 re truim related nucleotide sequences given in the Seque rom the present invention but not mentioned further wi tion. N.B. The sequence data for this patent is not re inted specification but is based on sequence informati by the European Patent Office	SQ Sequence 156638 BP; 32098 A; 46491 C; 46415 G; 31634 T; 0 U; U UCHEF; Query Match 100.0%; Score 129; DB 6; Length 156638; Best Local Similarity 100.0%; Pred. No. 2.9e-33; Matches 129; CONBERVATIVE 0; Mismatches Qy 1 radeCrrcrGcrGcrGcGACGATTACTGGGCATTACTGGACGAAGACCCGGACGGGGG 60 Db 141691 TGACCTTCTGCTCGATTACTCGAGCATTACTGACGATTACTGACGATAGACCCCGACGGGGGG 60	Qy 61 TGGTCGGGGTCTTTTGTTGTGGGGCGTGTGGGGGGTGTTGT		RESULT 3 AAS59535 standard; DNA; 26309 BP. XX AC AAS59535;	XX DT 13-FBB-2002 (first entry) XX	Kropioninaccetium aches minimizgente processi encourne on	KW SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis; KW uveitis; endophthalmitis; bone; joint; central nervous system; ELISA; KW inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay; KW dermatological; osteopathic; neuroprotectant; ds.	XX OS Propionibacterium acnes.	XX PN WO200181581-A2.	D 01-NOV-2001.	PF 20-APR-2001; 2001WO-US012865. XX PR 21-APR-2000; 2000US-0199047P. PR 02-UNN-2000; 2000US-0208841P.	(CORI-) CORI	Skeiky) L'maisor	XX WPI; 2001-616774/71.	AT Propionibacterium acnes polypeptides and nucleic acids useful for PT vaccinating against and diagnosing infections, especially useful for PT treating acne vulgaris.	XX PS Claim 1; SEQ ID NO 30; 1069pp; English.	CC Sequences AAS59506-AAS59804 represent DNA molecules encoding CC Propionibacterium acnes immunogenic polypeptides. The proteins and their CC propionibacterium acness is used in the reatment prevention and
CC cancer gene therapy associated protein XX SQ Sequence 600 BP; 132 A; 165 C; 161 G; 142 T; 0 U; 0 Other; Query Match 100.0%; Score 129; DB 6; Length 600; Best Local Similarity 100.0%; Score 129; DB 6; Length 600; Matches 129; Conservative 0; Mismatches 0; Indels 0; Gaps 0; QY 1 TGACCTCTGGTGGGATTACTTGGAGGATTACTGAGGACGAGAGGACCGGAGGA 60 472 TGACCTTCTGGTGGGATTACTTCGAGGATTACTGGAGGACGAGAGGACCGGAGGA 531	Qy61TGGTCGGGGGTTTTTTTTTTTTTTTTTTTTTTTTTTCCGGACT120Db532TGGTCGGGGTTTTTTGTTGTGGTGGTGGTGGTGTTGTTGT	RESULT 2 ABQB1850/c ID ABQB1850 standard; DNA; 156638 BP. XX AC ABQB1850; XX 19-NOV-2002 (first entrv)	XX DE Bifidobacterium longum NCC2705 related nucleotide seguence SEQ ID:1106.	XX Bifidobacterium longum NCC2705; Bifidobacterium; bacterial; KW antidiarrheic; antibacterial; inhibitor of Salmonella; detection; KW identification; lactic acid bacterium; diarrhoea; pathogenic bacteria; KW rotavirus; food composition; pharmaceutical composition; gene; ds.		RD1227152-A1			(NEST) SOC PROD NESTLE SA.	WPI; 2002-668397/72.	XX PT PT PT a probe or primer for detecting and/or identifying Bifidobacterium longum PT in a biological sample. XX	Disclosure; SEQ ID NO ILU6; SUPP; English. The present invention describes a nolvnurleotide (I) communising a	sequence of a Bifidobacterium genome selected from the nucleotide sequences given in AD081842 and AB081843, or a sequence exhibiting at least 90% identity or which hybridises with the sequences given in	ABQ81842 and ABQ81843. Also described is a polynucleotide (II) encoding a fusion protein, comprising a sequence selected from 1097 sequence given	In ABP65258 to ABP66594 ligated in frame to a polynucieotide encourd a c heterologous polypeptide. (I) has antidiarrheic and antibacterial C activities, and can be used as an inhibitor of Salmonella. (I) (which is c a probe) is useful for the detection and/or identification of	Bifidobacterium longum in a biological sample. A carrier containing the lactic acid bacterium Bifidobacterium longum NCC2705 (CNCM I-2618) can be	used for preventing and/or treating diarrhoea brought about by pathogenic bacteria and/or rotavirus. The carrier is a food composition selected from milk, yogurt, curd, cheese, fermented milks, milk based fermented nroducts, ice-creame, fermented

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The invention relates to an isolated polynucleotide (ACF64435-ACF64733) encoding a Propionibacterium acnes protein. The invention also relates to

CC polypeptides encoded by the polynucleotides (ABM35624-ABM64536) and to immunogenic fragments of P. acnes polypeptides. The invention cc additionally encompasses expression vectors and host cells comprising a additionally encompasses expression vectors and host cells comprising a controleotide of the invention, antibodies against polypeptides of the invention; fusion proteins comprising a polypeptide of the invention; a controleotide for stimulating an immune response specific for a P. acnes antigen-presenting cells that express the polypeptide; a method; a vaccine composition (comprising P. acnes polypeptides, controleotide, a vaccine composition (comprising P. cells prepared via this method; a vaccine composition (comprising P. acnes polypeptides and a method for inhibiting the development of P. acnes in a contigen-presenting cells that express the polypeptide; a method and kit for detecting or determining the presence or absence of P. acnes in a patient. The P. acnes polypeptides, polynucleotide; antibodies, fusion proteins, T cell populations or antigen-presenting cells that express the colypeptides are useful for diagnosing, preventing or treating acne vulgaris, or for stimulating an immune response specific for a P. acnes for duction. The yolynucleotides can also be used as probes or primers for nucleic acid hybridistation. The vaccine composition is useful for the controlection of an immune response specific for a P. acnes to nucleic acid hybridistation. The vaccine composition is useful for the controlection of an immune response specific for a P. acnes to the kit is useful for performing a diagnostic assay. The present controlection of an immune response data for this patent did not form to the invention. Note the specifically claimed control with printed specification, but was obtained in electronic format controlection, but was obtained in electronic format 9538 reaceaccarccarccararreagecreactreared 9597 ö 96 37 TGACGACAAAGACCCCGACCGAGATGGTCGGGGGTCTTTTTTTGTTGTGGTGCTGTGACGTGT Gaps Sequence 26309 BP; 5546 A; 8173 C; 7885 G; 4699 T; 0 U; 6 Other; Human; ds; gene; pain; neuronal tissue; gene therapy; spinal segmental nerve injury; chronic constriction injury; CCI; spared nerve injury; SNI; Chung. ö Length 26309; Indels 39; DB 8; 9598 reccacercerceaceaceacerceace 9630 97 TGTCCAACCGTATTATTCCGGACTAGTTCAGCG 129 Score 30.6; DI Dred. No. 9.8; Costigan M; 0; Mismatches Human gene NM_004046, SEQ ID NO 9619. ADE63675 standard; DNA; 2453 BP Befort K, 14-AUG-2001; 2001US-0312147P. 01-NOV-2001; 2001US-0346382P. 26-NOV-2001; 2001US-0333347P. 23.7%; 58.1%; 14-AUG-2002; 2002WO-US025765 29-JAN-2004 (first entry) (GEHO) GEN HOSPITAL CORP. (FARB) BAYER AG. 54; Conservative D'UTEO D, WPI; 2003-268312/26 GENBANK; NM_004046 Local Similarity WO2003016475-A2 Homo sapiens. 27-FEB-2003. ADE63675; ບັ Query Match Woolf Matches Ś ADE63675 RESULT \$ 8 đ 8 ą

New composition comprising two or more isolated polypeptides, useful for preparing a medicament for treating pain in an animal.

Claim 1; Page; 1017pp; English.

CC or human polynucleotides or a polynucleotide which represents a fragment, cr human polynucleotides or a polynucleotide which represents a fragment, derivative or allelic variation of the nucleic acid sequence. Also comprising the vector, a method for identifying a nucleotide sequence which is differentially regulated in an animal subjected to pain and a kit to perform the method, an array, a method for identifying an agent that increases or decreases the expression of the polynucleotide sequence that increases or decreases the expression of the polynucleotide sequence comprising the restor, a method for identifying an agent that increases or decreases the expression of the polynucleotide sequence that increases or decreases the expression of the polynucleotide sequence compound that regulates the activity of one or more of the subjected to pain, a method for identifying a compound which regulates the expression in an animal subjected to pain, a method for identifying a compound that regulates the activity of one or more of the polynucleotides, a method for identifying a compound und that an animal of one or more of the polypeptides given in the specification, a method for identifying a method for identifying a conjuncleotides or their antibodies. The polypreshides given in the polyneptides or their antibodies. The polypreshides given in the polyneptides or their antibodies. The polypreshides given in the condulates its activity is useful for preparing a medicament for treating pain and a pharaceutical composition operimed a minal (c.g. gene condulates its activity is useful for preparing a medicament for treating condulates its activity is useful for preparing a medicament for treating condulates its activity is useful for preparing a medicament for treating condulates its activity is useful for preparing a minal (c.g. gene condulates its activity is useful for preparing a minal (c.g. gene condulates its activity is useful for preparing a minal (c.g. gene condulates its activity is useful for polypeptides of rat invention discloses a composition comprising two or more isolated Sequence 2453 BP; 622 A; 536 C; 635 G; 660 T; 0 U; 0 Other; ftp.wipo.int/pub/published_pct_sequences. The

Score 29.6; DB 10; Length 2453; Pred. No. 11; 0; Mismatches 39; Indels 0; Query Match 22.9%; Best Local Similarity 57.6%; Matches 53; Conservative

ö 4 CCTTCTGCTCGTAGCGATTACTTCGAGCATTACTGACGACAAAGACCCCCGACGATGG 63 0; Gaps 8

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1924 ACGTGGTCTGTCGTATCTCGTTCGGATCCGTG 1955 g

RESULT 6 ADR9167

ADR91671 standard; DNA; 885 BP

ADR91671;

16-DEC-2004 (first entry)

Novel S. pneumoniae DNA sequence, SEQ ID 306

Meningitis; bacteraemia; pneumonia; otitis media; ds; bacterial infection.

Streptococcus pneumoniae.

US6800744-B1

05-0CT-2004

98US-00107433 30-JUN-1998;

97US-0051553P. 98US-0085131P. 02-JUL-1997; 12-MAY-1998;

(GENO-) GENOME THERAPEUTICS CORP. Bush D; Doucette-Stamm LA,

2004-697205/68 : I d M

P-PSDB; ADR94274

New isolated nucleic acid encoding a Streptococcus pneumoniae polypeptide, useful for diagnosing, preventing and/or treating pathological conditions resulting from the bacterial infection.

Disclosure; SEQ ID NO 306; 151pp; English.

The invention relates to an isolated nucleic acid comprising a sequence encoding a streptococcus pneumoniae ADR91366polypeptide, or its fragments, with any of 9 fully defined sequences (appearing as ADR94308, ADR94489; ADR94800, ADR94897, ADR9459, ADR95542, ADR95682, ADR94489; ADR92197, ADR92234, ADR9459, ADR95542, ADR95682, ADR94866, ADR92197, ADR92234, ADR93079, ADR92366, ADR92680 or ADR94866, ADR92197, ADR92234, ADR93039, ADR95562, ADR92660 or ADR94866, ADR92197, ADR92234, ADR93039, ADR92366, ADR92660 or ADR94866, ADR92197, ADR92234, ADR93039, ADR92566, ADR92660 or ADR94866, ADR92197, ADR92234, ADR93039, ADR92566, ADR92660 or ADR94866, ADR92197, ADR92234, ADR9200, ADR92366, ADR92660 or ADR94866, ADR92197, ADR92234, ADR9200, ADR92066, ADR92660 or ADR94866, ADR92197, ADR92234, ADR9200, CONSECUTIVE NUCLEOCIDES of He NUCLEOCIDE Sequences, or at least 40, 60 or 300 consecutive nucleotides sequence. The nucleic acids and proteins are chosen from 5206 disclosed sequences. Also included are a recombinant expression vector comprising the isolated nucleic acid cited above operably linked to a transcription regulatory element, a cell comprising the recombinant expression vector and a probe comprising at least 20 consecutive nucleotides of the nucleotide sequences as cited above. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of pathological conditions resulting from bacterial infection by the present Streptococcus pneumoniae e.g. pneumonia, bacteraemia, meningitis and otitis media. The present sequence is one of the 2603 disclosed S. pneumoniae nucleic acid sequences. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from USPTO at

seqdata.uspto.gov/sequence.html?DocID=6800744B1.

Sequence 885 BP; 243 Å; 168 C; 218 G; 256 T; 0 U; 0 Other;

32 ATTACTGACGACAAAGACCCCGACCGAGATGGTCGGGGGTCTTTTGTTGTGGTGCTGTGA 91 Gaps ö Length 885; Indels 36; DB 13; 22.8%; Score 29.4; DB 58.6%; Pred. No. 9.1; ive 0; Mismatches 51; Conservative Local Similarity Query Match Aatches Best 8

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604 ATTACAGATATCAACAAGGCTTACCTAAATCGTGGTGACCTTTCTGTTGAGCTGATGGGGG 663 92 CGTGTTGTCCAACCGTATTATTCCGGA 118 g δ

664 cerecruserrecerecia 690 g

ADQ89190/c RESULT 7

ADQ89190 standard; DNA; 1377 BP. A

ADQ89190;

07-OCT-2004 (first entry)

Non-natural ND4 mitchondrial protein coding sequence.

gene therapy; ND4 mitochondrial protein; ND4; cellular dysfunction; mtDNA mutation; Leber Hereditary Optic Neuropathy; mitochondrial gene mutation; human; gene; ds.

sapiens Homo

Synthetic

US2004142419-A1.

22-JUL-2004.

8 15:40:18 2005 Mon Aug r

17-OCT-2003; 2003US-00687677.

18-OCT-2002; 2002US-0419435P

(GUYJ/) GUY J.

Guy J;

WPI; 2004-579908/56.

New non-naturally occurring nucleic acid comprises a nucleotide sequence that encodes a functional ND4 mitochondrial protein, useful for reducing cellular dysfunction caused by mitochondrial gene mutations

Claim 7; SEQ ID NO 1; 16pp; English

The invention describes a non-naturally occurring nucleic acid comprising a nucleotide sequence that encodes a functional ND4 mitochondrial protein and differs from a naturally occurring nucleic acid that encodes a ND4 mitochondrial protein by at least one codon substitution. Also described are: a cell into which has been introduced the non-naturally occurring nucleic acid above; and reducing dysfunction in a cell caused by a mtDNA mutation associated with Leber Hereditary Optic Neuropathy. Specifically claimed is non-naturally occurring ND4 nucleic acid comprising 1377 base pairs (SEQ ID NO. 1), fully defined in the specification. The nucleic acid is useful for reducing cellular dysfunction caused by mitochondrial gene mutations. Compositions comprising the non-naturally occurring nucleic acids are also useful for treating mtDNA mutations in animal subjects, including humans. This sequence represents a non-naturally occurring ND4 mitochondrial protein encoding polynucleotide sequence. Score 29.4; DB 12; Length 1377; Sequence 1377 BP; 330 A; 436 C; 341 G; 270 T; 0 U; 0 Other; 22.8%;

ö 1292 erchaecricarericarericareridericidericaecricicecenerieriere 1233 116 Gaps ; 0 Human; ovarian cancer; ds; tumour; cytostatic; DNA marker. 26; Indels Pred. No. 10; 0; Mismatches Human ovarian cancer DNA marker #19115. ADL45225 standard; DNA; 3520 BP. 2000US-0207124P. 2000US-0211940P. 2000US-0216820P. 2000US-0220661P. 2000US-0257672P. 2000US-0191031P. 21-MAR-2001; 2001WO-US009126 63.4%; (first entry) 1232 AACATGTACAG 1222 Conservative 117 GACTAGTTCAG 127 Local Similarity Les 45; Conserv WO200170979-A2. 21-MAR-2000; 25-JUL-2000; 21-DEC-2000; 25-MAY-2000; L5-JUN-2000; Homo sapiens 07-JUL-2000; 20-MAY-2004 27-SEP-2001 ADL45225; Query Match Best Loca Matches ω ADL45225 RESULT ą 8 g 8

(MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

Lillie J; Lee J, WPI; 2001-611502/70.

Novel isolated nucleic acid molecules (markers) overexpressed in ovarian cancer cells as compared to their normal non-cancerous ovarian cells are used to characterize stage, grade, histological type of ovarian cancer.

cc the patient afflicted with ovarian cancer comprising providing to cells of the patient an antiense oligonuclectide complementary to a marker of the invention. The markers are useful for assessing if a patient is afflicted with ovarian cancer, which involves comparing the level of expression of a marker in a control non-ovarian cancer. The level of expression of the expression levels indicates ovarian cancer. The level of expression of a marker corresponds to a secreted protein or to a transcribed oplynucleotide or its portion. The level of expression of a marker corresponds to a secreted protein or to a transcribed of marker is detected using an antibody that specifically binds with the fragment is detected using an antibody that specifically binds with the protein or protein fragment. Alternatively, the level of expression of the marker is assessed by detecting the presence of a transcribed copynucleotide which anneals with the marker or anneals with a portion of the polynucleotide comprising the marker or anneals with a portion of the polynucleotide comprising the presence of a transcribed configuration of the marker or anneals with a portion of the polynucleotide comprising the marker or anneals with a portion of the polynucleotide comprising the marker or anneals with a portion of the polynucleotide comprising the marker or anneals with a portion of the polynucleotide comprising the marker or anneals with a portion of the polynucleotide comprising the marker or anneals with a portion of the polynucleotide comprising the marker or anneals with a portion of the polynucleotide comprising the marker or anneals with a portion of the polynucleotide comprising the marker or anneals with a portion of the polynucleotide comprising the marker or anneals with a portion of the polynucleotide comprising the marker or anneals with a portion of the polynucleotide comprising the marker or anneals with a subsequent configuration. Note: The sequence data for this patent did not form part of invention. Note: The sequence d ö The invention relates to nucleic acid markers which are overexpressed in ovarian cancer cells as compared to their expression in normal (i.e. non-cancerous) ovarian cells. The invention also relates to polypeptides polypeptides, a method of inhibiting ovarian cancer in a patient at risk of developing ovarian cancer involving inhibiting expression of a gene corresponding to a marker of the invention and a method of treating a 63 ċċcrċriaċriecrcarcroteċriaccrreritrriradraeaarraarċċċrcaċcrderide 86 Gaps ö Length 3520; Sequence 3520 BP; 679 A; 939 C; 1047 G; 855 T; 0 U; 0 Other; 51; Indels from WIPO at ftp.wipo.int/pub/published_pct_sequences. ch 22.8%; Score 29.4; DB 5; 1 Similarity 54.1%; Pred. No. 14; 60; Conservative 0; Mismatches 51; Disclosure; SEQ ID NO 19115; 106pp; English Local Similarity 27 Query Match Matches Best

q 8

87 gcéarchecthrichteréségéctéraácciéctésécécékerteáraárec 137 64 TCGGGGTCTTTTTGTTGTGGTGCTGTGTGTGTTGTTCCCAACCGTATTATTC 114 δ g

ABL01350/c RESULT

ABL01350 standard; DNA; 634 BP.

ABL01350;

(first entry) 15-MAR-2002

Murine apoptosis related DNA sequence #15.

Apoptosis; mouse; cancer; autoimmune disease; viral infection;

reperfusion injury; stroke; liver damage; Huntington's di transgenic animal; hepatotropic; antialcoholism; cytostat immunosuppressive; virucide; nootropic; neuroprotective; antiparkinsonian; cerebroprotective; ds.

Mus sp

DE10126344-A1.

24-JAN-2002

30-MAY-2001; 2001DE-01026344.

14-JUL-2000; 2000DE-01034303

(PLAC) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN

Gewies Schoenfeld N, Braziulis E, Cramer U, Nbayrak T, Gille H, Klein M; Albayrak T, Grimm S, Mund T,

WPI; 2002-115563/16.

New apoptosis-associated nucleic acid sequences and polyr for diagnosis, treatment and prevention of e.g. tumors ar neurodegeneration. The present invention relates to nucleic acids from the n nucleic acid is associated with apoptosis. The sequences the diagnosis, treatment and prevention of diseases assoc excessive or inadequate apoptosis, including tumours, aut diseases, viral infections, degradative diseases (hlzhein Parkinson's and Huntington's diseases), repertusion injuu alcohol-induced injury to the liver, for identifying ager these diseases, and to prepare transgenic animals in whic an apoptosis related sequence is altered. These are usefi-tion of apoptosis investigations of apoptosis and re-tered diseases and related and re-Sequence 634 BP; 157 A; 184 C; 160 G; 133 T; 0 U; 0 Othe 33; Indels 48 ACCCCGACCGAGATGGTCGGGGTCTTTTTGTTGTGGTGCTGTGTGACGT 245 Arccrtcrcrtccrcccccarcrcrtrrrrrrrrcricccccrcraccr Score 29.2; DB 6; Length Pred. No. 9.7; including dilatory cardiomyopathy. The present sequence apoptosis related sequences of the invention 0; Mismatches 108 ATTATTCCGGACTAGTTCAGCG 129 164 Claim 1; Page 137; 227pp; German. 185 ATCAATGCCTACTTGGTGGACG ADR89493 standard; DNA; 1800 BP Query Match 22.6%; Best Local Similarity 59.8%; Matches 49; Conservative ((first entry) 02-DEC-2004 ADR89493; RESULT 10 ADR89493 8 ብ 5 q

Apoptosis-inducing protein coding sequence, SEQ ID 17.

Cytostatic; Immunosuppressive; Neuroprotective; Vasotropic; Virucide; apoptosis; neurodegenerative disease; ischaemic disease; cancer; autoimmune disease; viral disease; murine; gene; ds.

Mus musculus

isease; omyopathy; tic; vasotropic;	HA TA	Key Location/Qualifiers CDS 11170 /*tag= a /product= "Apoptosis-inducing protein"
	A N	WO2004078112-A2.
	283	16-SEP-2004.
	PF VX	05-MAR-2004; 2004WO-JP002899.
	X R R	07-MAR-2003; 2003JP-00061179. 10-MAR-2003; 2003US-0452943P.
	XX	(ASAH-) ASAHI KASEI PHARMA CORP.
	Y I Å	Muramatsu S, Takeda M, Matsuda A;
A, VOSS F;	X H H H	WFI; 2004-662343/64. P-PSDB; ADR89494.
peptides, useful	X T T T T T T T S	New protein capable of inducing apoptosis, useful in screening for compounds that inhibit or induce apoptosis which may be used to treat neurodegenerative, ischemic, autoimmune and viral diseases, and cancer.
	S S	Claim 4; SEQ ID NO 17; 316pp; English.
mouse, where the	\$ 888	The present invention relates to novel purified proteins (I) and their coding sequences (II) (ADR89477-ADR89550), which are capable of inducing apoptosis. The proteins (I) are useful as a target in screening for
e used l with me	ខួនន	compounds that modulate apoptosis. Compounds that modulate the expression or activity of the protein may be useful in treating neurodegenerative diseases, ischaemic diseases, cancer, autoimmune diseases, or viral
mer's, ry, stroke and	ខេន	diseases. Measurement of the expression or activity of the protein may also be used to diagnose or disease or a susceptibility to a disease.
ch expression of ul for cenetic	ξ Ο'	Sequence 1800 BP; 323 A; 526 C; 556 G; 395 T; 0 U; 0 Other;
elated diseases, is one of the	δăž	Query Match 22.6%; Score 29.2; DB 13; Length 1800; Best Local Similarity 59.8%; Pred. No. 13; Matches 49; Conservative 0; Mismatches 33; Indels 0; Gaps 0.
r;	δ	48 ACCCCGACCGAGATGGTCGGGGGGCTTTTTTGTTGTGGGGGGGG
634;	đ	769 Arccercacercerédecearereertitertédecerétaácereereereeceaerre 828
0; Gaps 0;	δ	108 ATTATTCCGGACTAGTTCAGCG 129
	qq	829 Arcaargeeracraergeace 850
GCTGGCCCACTTC 186	ABL	RESULT 11 ABLO1352 UD ABLO1352 standard; DNA; 1836 BP.
	AC	ABL01352;
	123	15-MAR-2002 (first entry)
	X D X	Murine apoptosis related DNA sequence #17.
	KW KW	Apoptosis; mouse; cancer; autoimmune disease; viral infection; Alzheimer's disease; Parkinson's disease; Huntington's disease; reperfusion injury; stroke; liver damage; dilatory cardionyopathy; transgenic animal; heptotropic; antialcoholism; cytostatic; immunosupressive; virucide; nootropic; neuroprotective; vasotropic; antianovisor; corropic; neuroprotective; vasotropic;
ic; Virucide; cancer;	XXS	Mus sp.
	XX	DE10126344-A1.
	₹ G	24-JAN-2002.

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xx		
ΡF	30-MAY-2001; 2001DE-01026344.	DK WF1; 2003-615309/58. DR P-PSDB; ABO70427.
¥ K	14-JUL-2000; 2000DE-01034303.	v is sequences and encoding pendomonas actudinosa polybeptide
PA XX	(PLAC) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN.	FI NOVEL IDURATED NUMBERS OF DESCRIPTION OF DESCRIPTION OF DESCRIPTION OF DESCRIPTION OF DESCRIPTION OF ANN AND AND AND AND AND AND AND AND AND
XII	Grimm S, Schoenfeld N, Braziulis E, Cramer U, Gewies A, Voss F;	
Z X	ALDAYEAK I, GILLE D,	
ВX		
14 H	New apoptosis-associated nucleic acid sequences and polypeptides, userul for diagnosis, treatment and prevention of e.g. tumors and	
XX	Claim 1; Page 138-139; 227pp; German.	
ž	ments in the most of the second of an ide from the moster the	
ទទទ		CC components for diagnosis and/or treatment of P. aeruginosa-caused CC infection, and in detection of P. aeruginosa sequences or other sequences
ខ្លួន	excessive or inadequate apoptosis, including tumours, autoimmune diseases, viral infections, deradative diseases (Alzheimer's, diseases, viral infections, arrangenting, arrangenting, arrangenting, arrangenting, arrangenting, arrangenting,	
ខ្លួនទ	Parkinson's and Huntington's diseases), reperinsion injury, scroke and alcohol-induced injury to the liver, for identifying agents for treating +hono Aisosses and to menare transcenic animals in which expression of	
ខេត	an apoptosis related sequence is altered. These are useful for genetic and/or pharmacological investigations of apoptosis and related diseases,	ß
ខ្ល	including dilatory cardiomyopathy. The present sequence is one of the apoptosis related sequences of the invention	Query Match 22.2%; Score 28.6; DB 11; Length 1146; Dont room similarity 57.1%; Pred No. 19;
XX	Sequence 1836 BP; 341 A; 534 C; 562 G; 399 T; 0 U; 0 Other;	initiating for the second of Mismatches 39; Indels 0; Gaps
ŌĂĬ	Query Match 22.6%; Score 29.2; DB 6; Length 1836; Best Local Similarity 59.8%; Pred. No. 13; Marches 49: Conservative 0: Mismatches 33: Indels 0; Gaps 0;	Qy 39 ACGACAAAGACCCCGACCGACGAGATGGGGGGTCTTTTTGTTGTGGTGGTGACGTGTTG 98 Db 90 ACGATCAAGACCCTGGCCGAACTCGGGGGTGATCTTCCTGATGTTCTGCCTTGGAG 847
ż		OV 99 TCCAACCGTATTATTCCGGACTAGTTCAGCG 129
3 8	CCACTTC	Db 846 TrCAGCTGCGCAAGCTCTTCCAGGTCGGCG 816
õ	108 ATTATTCCGGACTAGTCAGCG 129	RESULT 13
q	B73 ATCAATGCTACTTGGTGGACG 894	ABD03637 ID ABD03637 standard; DNA; 2184 BP
RES	RESULT 12	XX AC ABD03637; XY
ABD ID	03998/c ABD03998 standard; DNA; 1146 BP.	DT 29-JUL-2004 (first entry) VY
XX	ABD03998;	AA DE Pseudomonas aeruginosa polynucleotide #2241. XX
223	29-JUL-2004 (first entry)	Kw Bacterial infection; gene; ds; Pseudomonas aeruginosa infection; Kw antibacterial.
283	Pseudomonas aeruginosa polynucleotide #2602.	
2 <u>8</u> 9	Bacterial infection; gene; ds; Pseudomonas aeruginosa infection; antibacterial.	
XS	Pseudomonas aeruginosa.	XX PD 22-APR-2003. XX
X	US6551795-B1.	222 222 222 222 222 222 222 222 222 22
38 X	22-AFR-2003.	.PR 18-FEB-1998; 98US-0074788P. PR 27-JUL-1998; 98US-0094190P.
PF XX	18-FEB-1999; 99US-00252991.	XX PA (GENO-) GENOME THERAPEUTICS CORP.
RA	18-FEB-1998; 98US-0074788P. 27-JUL-1998; 98US-0094190P.	
X & X	(GENO-) GENOME THERAPEUTICS CORP.	DX WFI; 2003-615309/58. DR P-PSDB; ABO70066.
Id	Rubenfield MJ, Nolling J, Deloughery C, Bush D;	

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-14-<u>-</u>-

Novel isolated nucleic acid encoding Pseudomonas aeruginosa polypeptide, useful as molecular targets for diagnostics, prophylaxis and treatment of pathological conditions resulting from bacterial infection. 도요도

XX	CEO ID NO 2011 - 155-2
2 X	UBITEUR /ddcc+ /T+77 ON AT ARS /ARAGONATA
ប្ល	Pseudomonas aeruginosa polypept
ខូន	polynucleotides encoding them. The sequences are useful in diagnosis and therapy of pathological conditions, as molecular targets for diagnostics,
ខ្ល	cof pathological conditions res
30	ng a compound, ringga nucleic
g	argets, as targets for antibacterial drugs,
ខ្ល	losa drugs, as templates for recombinant
ទួទ	
35	in detertion of P aeruginosa ser
ខ	omonas species using biochip technology. Sequences ABD01
ប្ល	17967 represent P. aeruginosa polynucleotides
ខ្លួ	for this patent did not form pa
55	Specification but was obtrained in electronic format from USPTO at
ž	
SQ	Sequence 2184 BP; 342 A; 706 C; 726 G; 410 T; 0 U; 0 Other;
ð	Match
Ma	Similarity 57.1%; Pred. No. 23; 2; Conservative 0; Mismatches 39; Indels
ò	39 ACGACAAAGACCCCGACCGAGATGGTCGGGGGTCTTTTTTGTTGTGGTGCTGTGACGTGTTG 98
1	
an	1538 ACGAICARGACCCIGGCCGAACTCGGGGGGGGGGGGGGGGGGGGGGGG
δ	99 TCCAACCGTATTATTCCGGACTAGTTCAGCG 129
qa	1598 TICAGCCTGCGCAAGCTCTTCCAGGTCGGCG 1628
RESULT	LT 14
ID	ABD03707 standard; DNA; 2868 BP.
XX	48D03707.
X	
503	29-JUL-2004 (first entry)
۲ ۲ ۲	Pseudomonas aeruginosa polynucleotide #2311.
xx	
KW K	Bacterial infection; gene; ds; Pseudomonas aeruginosa infection; antibacterial.
X S	Pseudomonas aeruginosa.
X	
Y X	.Tg~c6/Tccoco
D 2	22-APR-2003.
FF S	18-FEB-1999; 99US-00252991.
X	
R R Y	10-FEB-1296; 9803-00/4/00F. 27-JUL-1998; 9803-0094190P.
A Y X	(GENO-) GENOME THERAPEUTICS CORP.
Id	Rubenfield MJ, Nolling J, Deloughery C, Bush D;
8883	WPI; 2003-615309/58. P-PSDB; AB070136.
2 2 1	isolated nucleic acid encoding Pseudomonas aeruginosa polypeptide
Ld Ld	useful as molecular targets for diagnostics, prophylaxis and treatment of pathological conditions resulting from bacterial infection.

Disclosure; SEQ ID NO 2311; 455pp; English.

The invention relates to Pseudomonas aeruginosa polypeptides and the polynucleotides encoding them. The sequences are useful in diagnosis and therapy of pathological conditions resulting from a prophylaxis and treatment of pathological conditions resulting from a bacterial infection, for evaluating a compound, such as a polypeptide, to the ability to bind a P. aeruginosa nucleic acid, as components of effective antibacterial targets, as targets for antibacterial drugs, including anti-P. aeruginosa drugs, as templates for recombinant production of P. aeruginosa drugs, as templates for recombinant components for diagnosis and/or treatment of P. aeruginosa-caused infection, and in detection of P. aeruginosa sequences ABD1397-for preduction but was obtained in electronic form part of the invention. Note: The sequence data for this patent did not form part of the printed specification but was obtained in electronic form part of the printed specification but was obtained in electronic form part of the printed specification but was obtained in electronic form part from USPTO at ö 1177 AccArcAAcAccordecceAAcrocecercarcritecricarcricitrecreateric 86 Gaps ; 0 Length 2868; Sequence 2868 BP; 435 A; 939 C; 941 G; 553 T; 0 U; 0 Other; Indels DB 11; :66 Treascereceaascererreaseres 1267 Score 28.6; DB Pred. No. 24; 0; Mismatches TCCAACCGTATTATTCCCGGACTAGTTCAGCG 129 Query Match 22.2%; Best Local Similarity 57.1%; Matches 52; Conservative (66 1237 RESULT 15 å 5 q 6

AAT79329

BP AAT79329 standard; DNA; 936

AAT79329;

(revised) (first entry) 17-0CT-2003 16-FEB-1998 DNA encoding Archaeoglobus fulgidus esterase VC16-16MC.

Esterase; thermostable enzyme; ester; chiral compound; cheese; pulp; paper; lignin removal; sugar; lignocellulose; disease resistance; feedstuff; ss.

Archaeoglobus fulgidus; strain VC16.

Key CDS

Location/Qualifiers .936

*tag= b

.384, .432, .489, 382. 385. 487. 5595. 691. : 80d) : 80d) : sođ) : 80d) /transl_except= (/transl_except= (/trans

aa:Ala) aa:Gly) aa:Ala) aa:Val) aa:Val) aa:Ile) aa:Asn)

aa:Ala) aa:Ala)

: 80d)

.501, .507, .561, (pos: transl_except= unsure

/note= "encodes Ile" *tag=

WO9730160-A1

21-AUG-1997

97WO-US002039. 11-FEB-1997;

96US-00602359. 16-FEB-1996;

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(RECO-) RECOMBINANT BIOCATALYSIS INC

Reid J, Maffia AM, Link S, Swanson RV; Callen W; Murphy D, Kosmotka A, Robertson DE, Warren PV, Ko

WPI; 1997-425035/39. P-PSDB; AAW23076 Nucleic acid encoding heat stable esterase from thermophilic bacteria which is active in organic solvents, useful in cheese or paper manufacture, and to study plant resistance to disease.

Claim 1; Page 50-51; 113pp; English

CC This DNA sequence codes for thermostable esterase VC16-16MC (AAW23076) of Archaecoglobus fulgidus VC16, an isolate that grows optimally at 85 deg C and pH 7.0. It can be amplified from a pBluescript vector by PCR (see AAT79317-18). Claimed, newly identified polynucleotides (AAT79321-30) CC mand pH 7.0. It can be used for recombinant production of the encoding esterases (AAW23089) were recovered from genomic gene libraries. They can be used for recombinant production of the cc erzymes in host cells, and as probes to identify related sequences. The esterases are stable at high temperature and in organic solvents, making them superior for use in production of pure chiral compounds used in pharmaceutical, agricultural and other chemical industries. A method is c them superior for use in production of pure chiral compounds used in c pharmaceutical, agricultural and other chemical industries. A method is c there acid using a claimed esterase. The enzymes may also be useful as ripening starters in cheese making, in lignin removal in paper and pulp c ripening starters in cheese making, in lignin removal in paper and pulp c manufacture, in crabolydrate derivative synthesis, in fermentable ugar production from lignocellulosic waste, in the study of plant wall c structure, plant sbred for production of highly degradable animal c feeds. (Updated on 17-0CT-2003 to standardise OS field)

Sequence 936 BP; 235 A; 220 C; 265 G; 214 T; 0 U; 2 Other;

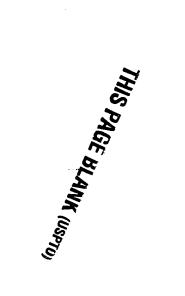
0; Gaps 22:0%; Score 28.4; DB 2; Length 936; 56.4%; Pred. No. 20; :ive 0; Mismatches 41; Indels 0 Best Local Similarity 56.4 Matches 53; Conservative Query Match

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718 GACCTTGAGAACCTCCTCCCGCCCGATCATAACCCGCCGAATACGACCCGCCGAGAGAT 777 å

778 GAAGGAGAAGTTTTCGGGCAGATGCTGAGAAGAG 811 ዋ

Search completed: August 5, 2005, 23:52:43 Job time : 209.159 secs



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OM nucleic - nucleic search, using sw model

August 5, 2005, 23:28:19 ; Search time 68.7196 Seconds (without alignments) 3071.607 Million cell updates/sec Run on:

Title: Perfect score:

US-10-782-899-1_COPY_472_600 129 1 tgaccttctgctcgtagcga.....tattccggactagttcagcg 129 Sequence :

IDENTITY NUC Gapop 10.0, Gapext 1.0 Scoring table:

1202784 seqs, 818138359 residues Searched:

2405568 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Issued Patents NA:*

Database :

- 4 0 0
- /cgm2_6/ptcdata/1/ina/5A_COMB.8eg:* /cgm2_6/ptcdata/1/ina/5B_COMB.8eg:* /cgm2_6/ptcdata/1/ina/6A_COMB.8eg:* /cgm2_6/ptcdata/1/ina/6A_COMB.8eg:* /cgm2_6/ptcdata/1/ina/PCTUS_COMB.8eg:* /cgm2_6/ptcdata/1/ina/PCTUS_COMB.8eg:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	\$ Query Match	% Query Match Length	DB	ID	Description
	29.4	22.8	870	4	US-09-583-110-1324	Sequence 1324, Ap
10	29.4	22.8	885	4	-09-107-433-30	306, 7
e	29.4	22.8	194915	4	US-09-949-016-15584	15584
4	29	22.5	601	4	US-09-949-016-68059	68059,
S	29	~	264665	4	US-09-949-016-13747	13747,
9 0	28.6	22.2	1146	4	US-09-252-991A-2602	260
7	28.6	22.2	2184	4	US-09-252-991A-2241	224
8	. 28.6	22.2	2868	4	-60-	
6	28.4	22.0	936	3	-08-	31,
c 10	27.4	21.2	1160	4	US-09-270-767-13705	E
с 11	26.6	20.6	601	4	US-09-949-016-125432	
12	26.6	20.6	139552	4	US-09-949-016-15300	
c 13	26.4	20.5	14707	4	-60-	
Ч	26.2	20.3	601	4	US-09-949-016-143314	Sequence 143314,
н	26.2	20.3	601	4	US-09-949-016-143485	
c 16	26.2	20.3	746	4	US-09-380-419C-1	4
Ч	26.2	20.3	907	m	US-08-672-850-7	, ,
-	26.2	20.3	907	'n	-08-	Sequence 11, Appl
٦	26.2	20.3	907	4	US-09-565-177A-7	, ,
2	26.2	20.3	907	4	60	11,
с 21	26.2	20.3	1001	m	US-08-672-850-10	10,
°.	26.2	20.3	1001	4	US-09-565-177A-10	10, App
23	26.2	20.3	85912	4	-09-949-016	12362,
24	26.2	20.3	85913	4	US-09-949-016-16109	1610
25	26.2	20.3	120727	4	-09-949-016-157	15787,
26	26.2	20.3	5	4	-09-049-016-	e 15788,
c 27	26	20.2	1074	4	US-09-934-901-7	Sequence 7, Appli

NUMBER OF SEQUENCES: 5206 CORRESPONDENCE ADDRESS: THERAPEUTICS CORPORATION ADDRESSES: GENOME THERAPEUTICS CORPORATION STREET: 100 Beaver Street

0000	0 0 0 8 0 0 0 8	00000 0000 0000	50.55 50.55 50.55 50.55 50.55	1074 1074 1074 43280	***	US-09-934-868-17 US-10-321-210-7 US-10-320-874-7 US-10-320-874-7 TC-00-040-1272	Sequence 17, Appl Sequence 7, Appli Sequence 1, Appli Sequence 1, Appli Securence 12, Appli	
υυ	2 67 67 7 67 67 7 67 67	ំណ៍ណ៍	000	י		US-09-198-092-1 US-08-674-887A-5		
υυ	36 36 37	25.8 25.8 25.8	000			US-U8-951-844-5 US-09-412-347-5 US-09-313-294A-1215	sequence 3, Appli Sequence 5, Appli Sequence 1215, Ap	
	38 96	ហំហំ	5 5	-		US-09-949-016-15680 US-09-949-016-14184	Sequence 15680, A Sequence 14184, A	
υυ	40		6 6	4		US-09-949-016-11940 US-09-023-655-992	11	
00	141		6 6			US-08-461-244-1 TIC-09-016-434-1096	1, Ap	
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						ALIGNMENTS		
RES US-	SULT 1 -09-583-11 Sequence 1 Patent No.	111	324 , Appl 99703	-1324 3-1324 124, Application US/0958311 6699703	us/	09583110		
	GENERAL		MATION	<u></u>				
	APPLICANT: TITLE OF I	CANT: LYNN DO OF INVENTION:	INVENTION:	ğ	Sta	et al. id and Amino Acid Seg	nences Relating to Streptococcus	suc
·- ·- ·	FILE F	FILE OF INVENTY FILE REFERENCE: CURPENT ADD. ICAT	ICE: P	N: PREUMORIAE PATHO0-07A ON NUMBER: US/		tor Diagnostics and 09/583.110	Tapaurus	
	CURREN	CURRENT FILING DATE: PRIOR APPLICATION NU	NG DAT	E: 2000 NUMBER:	0-05-2 US 0	433		
	PRIOR PRIOR	FILING	ATION	1998-(NUMBER:	06-3 US	0 60/085,131		
•• •• ••	PRIOR	APPLIC FILING	ATION DATE: DATE:	K FILING DATE: 1998-US-12 R APPLICATION NUMBER: US 60 R FILING DATE: 1997-07-02	1-cr	ر 60/051,553 2		
	NUMBER SEQ ID 1	IBER OF SEQ ID NO 1324	N ID N	IOS: 532	53			
	358	LENGTH: 870 TYPE: DNA ORGANISM: S) trepto	coccus I	nend	moniae		
-sn	-09-583	3-110-1	324	583-110-1324				
~ H &	Query Match Best Local Matches 5	Match ocal Si s 51;	ц.	22 58 vativ	. 88 . 68	Score 29.4; DB 4; Length Pred. No. 0.94; 0; Mismatches 36; Indel	jth 870; dels 0; Gaps 0;	
Q		32 A	TTACTG	ACGACAA	AGAC	TTACTGACGACAGAGACCCGAGAGAGGGTCGTGGGGGGGCGCGGGGGGGG	TTGTTGTGCTGTGA 91	
qa		589 A	TTACAG	ATATCAA	CAAG	ALTACAGATATCAACAAGGCTTACCTAATCGTGGTGACCTTTCTGTTGAGCTGATGGGG	CTGTTGAGCTGATGGGG 648	
රි සි		92 C 649 C	GTGTTG GTGGTT	TCCAACC(TTGCCTGC	STAT	CGTGTTGTCCAACCGTATTATTCCGGA 118 		
RES	RESULT 2 US-09-107-4 : Sequence	SULT 2 -09-107-433-306 Secnence 306, A	106 Appli	cation [0/Sť	9107433		
	Patent No. GENERAL	NO. 68	00744 ORMATI	NO. 6800744 VAL INFORMATION:				
		TITLE	OF INV	APPLICANT: LYNN A UC TITLE OF INVENTION:	NUC SEQ	N: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STREPTC	A DUBIN ACID STREPTOCOCCUS PNEUMONIAE FOR DIAGN	AGN
•••		NUMBER OF		SEOUENCES :	THE : 52	HERAPEUTICS 5206		

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<pre>sEQ ID NO 15584 LENGTH: 194915 DENGTH: 194915 CRGANISM: Human FEATURE: NAME/KEY: misc feature FEATURE: NAME/KEY: misc feature COTTON: (1)(194915) COTTON: (1)(194915) COTTON: (1)(194915) COTTON: (1)(194915) COTTON: (1)(194915) COTTON: (1)(194915) COTTON: (1)(194915) Best Local Similarity 60.8%; Pred. No. 10; Matches 48; CONSETVATION: 0, Mismatches 31; Indels 0; Gaps 0; Matches 48; CONSETVATIVE 0; Mismatches 31; Indels 0; Gaps 0; COTTON: 115691 AccACTCACACACACACACACACACACACACACACACACA</pre>	PATENT NO. 661233 PATENT NO. 6612339 GENERAL INFORMATION: APPLICANT: VENTER, J. Craig et al. APPLICANT: VENTER, J. Craig et al. TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED TILLE REFERENCE: CLOOO1307 CURRENT FILING DATE: 2000-014 PRIOR APPLICATION NUMBER: 60/231,768 PRIOR FILING DATE: 2000-10-03 PRIOR FILING DATE: 2000-00-08 PRIOR FILING DATE: 2000-00-03 PRIOR FILING DATE: 2000-00-0	UG-091949-ULD-66039 UG-07499-ULD-66039 CUERY Match 22.5%; Score 29; DB 4; Length 601; Best Local Similarity 58.8%; Pred. No.1.1; Matches 50; Conservative 0; Mismatches 35; Indels 0; Gaps 0; Matches 50; Conservative 0; Mismatches 35; Indels 0; Gaps 0; CY 23 ACTTCGACGATTACGACGACAGACAGACGACGAGAGACGACGAGAGATTATTGTTGT 89 Db 30 AGTGCTAGGATTACAGGCGAGAGACCACCGAGAGACCTCGACAGACTATTGTTG 82 CY 83 GTGCTGAGAGATTACAGGCGAGAGACCACCGACGAGACCTCGACAGACCTCGACAGACTATTGTT 89 OY 83 GTGCTGAGAGATTACAGGCGAGAGCCACCGACGACCAGACCTCGACAGACCTCGACAGACTATTTGTT 89 OY 83 GTGCTGAGGATTACAGGCGAGAGCCACCGACGAGACCCCCGAGACCCCGAGACCTCGACACCTCGACAGACCTAGACAGAC
CITY: Waltham STATE: Massachusetts COUNTRY: USA COUNTRY: USA COUNTRY: USA CONPUTER READABLE FORM: MEDIUM TYPE: CD/ROM ISO9660 COMPUTER: CUNKNOWN> OFERATION TYPE: CD/ROM ISO9660 CORRUTER: CUNKNOWN> COERATIER: CUNKNOWN> COERATIER: CUNKNOWN> COERATION NUMBER: CUNKNOWN> SOFTWARE: CUNKNOWN> CURRENT APPLICATION NUMBER: G0/095131 FILING DATE: 30-JUN-1998 PRIOR APPLICATION NUMBER: 60/085131 FILING DATE: 30-JUN-1998 PRIOR APPLICATION NUMBER: 60/085131 FILING DATE: 30-JUN-1998 PRIOR APPLICATION NUMBER: 60/085131 APPLICATION NUMBER: 60/085133 FILING DATE: J01/ 2, 1997 ATTORNET/AGENT INFORMATION: REFERENCE/DOCKET NUMBER: 40,489 REFERENCE/DOCKET NUMBER: 40,489 REFERENCE/DOCKET NUMBER: 40,489 REFERENCE/DOCKET NUMBER: 40,489 REFERENCE/DOCKET NUMBER: 40,489 REFERENCE/DOCKET NUMBER: 40,489 REFERENCE/DOCKET NUMBER: 60/011 TELECOMUNICATION INFORMATION: TELEROMUNICATION INFORMATION: TELEROMUNICATION INFORMATION: TELEROMUNICATION NUMBER: 40,489 REFERENCE/DOCKET NUMBER: 40,495 REFERENCE/DOCKET NUMBER: 40,495 REFERENCE/DOCKET NUMBER: 40,495 REFERENCE/DOCKET NUMBER: 40,495 REFERENCE/DOCKET NUMBER: 40,495 REFERENCE/DOCKET NUMBER: 40,495 REFERENCE/DOCKET NUM	<pre>secuence characterstics: TYPE: mucleic acid TYPE: mucleic acid STRANDEDNESs: double STRANDEDNESs: double STRANDEDNESs: double STRANDEDNESs: double STRANDENESS: double STRANDENESS: double STRANDENESS: double STRANDENESS: double STRANDENES: double STRANDENESS: double MOLECULE TYPE: DNA (genomic) HYPOTHETICAL: NO AMTI-SENES: NO ORGANISM: Streptococcus pneumoniae FEATURE: NAME/KEY: misc feature NAME/KEY: misc feature LOCATION: (B) LOCATION 1885 SEQUENCE DESCRIPTION: SEQ ID NO: 306: US-09-107-433-306 Usery Match SecUENCE DESCRIPTION: SEQ ID NO: 306: Usery Match SecUENCE DESCRIPTION: SEQ ID NO: 306: Usery Match SecUENCE DESCRIPTION: SEQ ID NO: 306: Usery Match S1; CONSErvative 0; Mismatches 36; Indels 0; Gap8 0; Matches 51; CONSErvative 0; Mismatches 36; Indels 0; Gap8 0; Matches 51; CONSErvative 0; Mismatches 36; Indels 0; Gap8 0; Matches 51; CONSErvative 0; Mismatches 36; Indels 0; Gap8 0; Matches 51; CONSErvative 0; Mismatches 36; Indels 0; Cap8 0; Matches 51; CONSErvative 0; Mismatches 36; Indels 0; Cap8 0; Matches 51; CONSErvative 0; Mismatches 36; Indels 0; Cap8 0; Matches 51; CONSErvative 0; Mismatches 36; Indels 0; Cap8 0; Matches 51; CONSErvative 0; Mismatches 36; Indels 0; Cap8 0; Matches 51; CONSErvative 0; Mismatches 36; Indels 0; Cap8 0; Matches 51; CONSErvative 0; Mismatches 36; Indels 0; Cap8 0; Matches 51; CONSErvative 0; Mismatches 36; Indels 0; Cap8 0; Matches 51; CONSErvative 0; Mismatches 36; Indels 0; Cap8 0; Matches 51; CONSErvative 0; Mismatches 36; Indels 0; Cap8 0; Matches 51; CONSErvative 0; Mismatches 36; Indels 0; Cap8 0; Matches 51; CONSErvative 0; Mismatches 36; Indels 0; Mismatches 51; CONSERVAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG</pre>	Db 604 #THACGGATATCAACAGGCTTAILT III III III IIII IIII IIIIIIIIIII

Mon Aug 8 15:40:18 2005 us-10-782-899-1_c	copy_472_600.rni Page 3
PRIOR FILING DATE: 2000-10-20 PRIOR APPLICATION NUMBER: 60/237,768 PRIOR FILING DATE: 2000-10-20 PRIOR FILING DATE: 2000-10-08 PRIOR FILING DATE: 2000-09-08 NUMBER OF SEQ ID NOS: 207012 SOFTWARE: FASTSQ for Windows Version 4.0 SEQ ID NO 13747 LENGTH: 264665 TYPE: DNA	1998-02-18 MBER: US 1998-07-27 : 33142 : 33142 as aerugin 22.23;
-09-949-016- Query Match Best Local S Matches 50	Similarity 2; Conservat ACGACAAAGAC(ACGATCAAGAC
0Y 23 ACTORAGATAAGACAAAGACAAAGACAAAGACGAAGAATGATGAGGATTATTATTATTGG 2 Db 52981 AGTGCTAGGATTACAGGCGTGGCGCGGGCCGGGCCGGGC	QY 99 TCCAACCGTATTATTCCGGACTAGTCAGCG 129 Db 1598 TTCAGCCTGCGCAAGCTCTTCCAGGTCGGCG 1628 RESULT 8 003 201 003 201
RESULT 6 US-09-252-991A-2602/c US-09-252-991A-2602/c Patent No. 6551795 GENERAL INFORMATION: APPLICANT: Marc J. RUDENfield et al. APPLICANT: Marc J. RUDENfield et al. TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS TITLE REFERENCE: 107196.136 CURRENT APPLICATION NUMBER: US/09/252,991A CURRENT FILING DATE: 1999-02-18 PCURRENT FILING DATE: 1999-02-18 PCURRENT FILING DATE: 1999-02-18	<pre>Sequence 2311, Application US/09252991A Patent No. 6551795 GENERAL INFORMATION: APPLICANT: Marc J: Rubenfield et al. APPLICANT: Marc J: Rubenfield et al. TITLE OF INVENTION: NGCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS FILE REFERENCE: 107196.136 FILE REFERENCE: 107196.136 CURRENT APPLICATION NUMBER: US/09/252,991A CURRENT FILING DATE: 1999-00-18 PRIOR FILING DATE: 1999-00-18 PRIOR FILING DATE: 1999-00-18 PRIOR FILING DATE: 1999-07-27 PRIOR FILING DATE: 1998-07-27</pre>
PRIOR FILING DATE: 1998-02-18 PRIOR APPLICATION NUMBER: US 60/094,190 PRIOR FILION NUMBER: US 60/094,190 PRIOR FILION NUMBER 07 SEQ ID NOS: 33142 SEQ ID NO 2602 LENGTH: 1146 TYPE: DNA ORGANISM: Pseudomonas aeruginosa	OF SEQ ID NO [0 2311 [! 2868 SM: Pgeudomo: 991A-2311 tch
US-09-252-991A-2602 Query Match 22.2%; Score 28.6; DB 4; Length 1146; Best Local Similarity 57.1%; Pred. No. 2.1; Matches 52; Conservative 0; Mismatches 39; Indels 0; Gaps 0;	52; Conservative 0; Mismatch 9 Accarcaaccccccccccccccccccccccccccccccc
Qy 39 ACGACAAAGACCCCGACCGAGATGGTCGGGGTCTTTTTCTTGTGGTGCTGTGGCGTTT 98 D 91 1 1 1 1 1 1 1 D 906 ACGATCAAGACCCTGGCCGAACTCGGGGTGGTGGTGTTCCTGATGTTCTGCCTCGGCCTGGAG 847 Qy 99 TCCAACCGTATTATTCGGGACTAGTTCAGGC 129 Qy 99 TCCAACCGTATTATTCGGGACTAGTTCAGGC 129	
<pre>Db 846 frcAGCTGCGCAGCTCTCCAGGTGGGG 816 RESULT 7 RESULT 7 RESULT 7 RESULT 7 Sequence 2241, Application Us/09252991A Sequence 2241, Application Us/09252991A Sequence 2241, Application Us/09252991A REAL INFORMATION: APPLICATION: ALL INFORMATION: TITLE OF INVENTION: ALL AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS TITLE OF INVENTION: ALLUGIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS TITLE OF INVENTION: ALLUGIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS TITLE OF INVENTION: ALLUGIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS TITLE OF INVENTION: ALLUGIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS TITLE OF INVENTION: ALLUGIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS TITLE OF INVENTION: ALLUGIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS TITLE OF INVENTION: ALLUGIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS TITLE OF INVENTION: ALLUGICOSA FOR DIAGNOSTICS AND THERAPEUTICS TITLE OF INVENTION: ALLUGICOSA FOR DIAGNOSTICS AND THERAPEUTICS TITLE OF INVENTION: ALLUGICOSA FOR DIAGNOSTICS AND THERAPEUTICS TITLE OF INVENTION NUCLER: US/09/252,991A CURRENT APPLICATION NUMBER: US/09/252,991A PPLICATION NUMBER: US/09/24,788 PPLICATION NUMBER: US/</pre>	RESULT 9 US-08-602-359A-31 Sequence 31, Application US/08602359A Patent No. 5942430 GENERAL INFORMATION: APPLICANT: ROBERTSON, Daniel E. APPLICANT: REID, John APPLICANT: REID, John APPLICANT: RID, John APPLICANT: RID, John APPLICANT: RINK, Steven APPLICANT: WARFIN, Pathony APPLICANT: WARRN, Patrick V. APPLICANT: WARRN, Patrick V. APPLICANT: WARRN, Patrick V. APPLICANT: KOSMOTKA, Anna TITLE OF INVENTION: ESTERASES NUMBER OF SEQUENCES: 42

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RESULT 13 US-09-312-762A-3/C Sequence 3, Application US/09312762A Patent No. 6552317 GENERAL INFORMATION: TITLE OF INVENTION: APPLICANT: MIA HOROWITZ ET AL. TITLE OF INVENTION: APPLICANT: MIA HOROWITZ ET AL. TITLE OF INVENTION: APPLICANT: APPLICANT: APPLICANT: TITLE OF INVENTION: APPLICANT:	CURRENT APPLICATION DATE: APPLICATION NUMBER: US/09/312,762A FILING DATE: CLASSIFICATION NUMBER: US/09/312,762A FILING DATE: CLASSIFICATION NUMBER: US/09/312,762A FILING DATE: 209/026,898 ATTORNEY/AGENT INFORMATION: NAME: FY1edman, Mark M. REGISTRATION NUMBER: 31,883 REFERENCE/DOCKET NUMBER: 31,883 REFERENCE/DOCKET NUMBER: 31,883 REFERENCE/DOCKET NUMBER: 31,66/10 TELECOMMUNICATION INFORMATION: TELECOMENCI OFTER: 33,883 TELECOMENCI OFTER: 33,883 TELECOMENCI OFTER: 33,883 TELECOMENCI OFTER: 33,883 TELECOMENCE CHARACTERISTICS: INFORMATION FOR SEQ ID NO: 3: SEQUENCE CHARACTERISTICS: LENGTH: 1470 TYPE: nucleic acid STRANDEDNESS: double STRANDEDNESS: double	Query Match20.5%; Score 26.4; DB 4; Length 14707; Best Local Similarity 54.0%; Pred. No. 42; Matches 54; Conservative 0; Mismatches 46; Indels 0; Gaps 0; Or 7 TCTGCTGGGATTACTTCGAGGATTACTACGGACATAGGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGA	RESULT 14 US-09-949-016-143314/C Sequence 143314, Application US/09949016 Sequence 143314, Application US/09949016 Sequence 14314, Application US/09949016 Fatent No. 6812339 GENERAL INFORMATION: APPLICANT: VENTER. J. Craig et al. APPLICANT: VENTER. J. Craig et al. APPLICANT: VENTER. J. Craig et al. TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF TITLE REFERENCE: CL001307 FILE REFERENCE: CL001307 CURRENT APPLICATION NUMBER: US/0949,016 CURRENT FILLING DATE: 2000-04-14 PRIOR APPLICATION NUMBER: 60/241,755 PRIOR APPLICATION NUMBER: 60/2317,768

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 KEYWORDS EST. SOURCE Solanum tuberosum (potato) SOURCE Solanum tuberosum OKGANISM Solanum tuberosum OKGANISM Solanum tuberosum Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Bermatofs; lamiids; Solanales; Solanaceae; Solanum. REFFRENCE 1 (bases 1 to 932) AUTHORS Buell, C.R., Hart, A., Zismann, V., Karamycheva, S.A. and Baker, B. JOURNAL Unpublished (2003) 	COMMENT The Institute for Generat Research The Institute for Generat Research 9712 Medical Center Dr, Rockville, MD 20850, USA Email: potato-array@tigr.org Clones can be requested from the University of Arizona Genomics Institute via http://genome.arizona.edu/orders/. Seq primer: ArT TAG GTG ACA TAG. FEATURES Location/Oualifiers source 1932 forganism="Solanum tuberosum" /oultivate" Kennebec"	<pre>/db_xref="taxon:4113" /dione="POAB963" /cione="POAB963" /tissue_type="abiotic stress treated leaf and root tissue" /lab_host="TBH10B-TONA" /lab_host="DBH10B-TONA" /lab_host="DBH10B-TONA" /lab_host="DBH10B-TONA" /lab_host="DBH10B-TONA" /lab_host="abitato abiotic stress cDNA library" /lab_host="Totato abiotic stress cDNA library" /none_ivector: PCWNSport6.1; Site 1: EcoX1; Site 2: Not1; supplier: Solanum tuberosum var. Kennebec plants were grown from cuttings on a 16hr light/8 hr dark cycle at 25 c for 3-4 weeks. Abiotic stress conditions were applied to four constrants act of plants set 1; huolved saturation of four constrants of plants set.</pre>	the soil with 150 mM Nacl and tissues were harvested at following application of the salt stress (laaves: 2hr, 6hr, 12hr, 12hr, 14, 24, and 44; roots:2hr, 6hr, 12hr, and 24). Set 2 were grown under the standard conditions and then were water stressed by withdrawal of further watering applications. Drough stressed plants were harvested after cessation of a watering (leaves: 3d, 5d, and 7d; roots:3d and 5d). Set 3 were grown under the standard conditions and then were cold stressed by placement at 4 C. Cold stressed leaves were harvested at 2 hr, 6 hr, 12 hr, 1 d, and 4d and roots were harvested at 2 hr, 6 hr, 12 hr, 1 d, 2d. Set 4 were grown under the standard conditions and then were harvested at 2 hr, 6 hr, 12 hr, 1 d, add and word were harvested at 2 hr, 6 hr, 12 hr, 1 d, 2d. Set 4 were grown under the standard conditions and then were havested by placement at 5 C. Heat stressed leaves were harvested at 2 hr, 1 d, 2d. Set 4 were grown under the standard conditions and then were havested at 2 hr, 1 d, 2d. Set 4 were grown under the standard conditions and then were havested at 2 hr, 1 d, 2d. Set 4 were grown under the standard conditions and then were havested at 2 hr, 1 d, 2d. Set 4 were grown under the standard conditions and then were havested at 2 hr, 1 d, 2d br, 1 d, and 4d. RNA was isolated at 6 hr, 2 hr, 1 d, and stressed roots were harvested at 6 hr, 2 hr, 1 d, and stress was pooled to construct the cNA library. RNA sample.	ORIGIN Query Match 24.0%; Score 31; DB 7; Length 932; Best Local Similarity 57.9%; Pred. No. 27; 40; Indels 0; Gaps 0; Matches 55; Conservative 0; Mismatches 40; Indels 0; Gaps 0;	QY 5 CTTCTGCTCGTAGCGATTACTTCGAGCATTACTGACGACGAGCGAG	RESULT 4 BM522110/c BM522110 429 bp mRNA linear EST 19-FEB-2002 LOCUS BM522110/c S.scabiei cDNA library Sarcoptes scabiei cDNA clone DEFINITION ESSU0647 S.scabiei cDNA library Sarcoptes scabiei cDNA clone ACCESSION BM522110 ACCESSION BM522110 GI:18706032 VERSION BM522110.1 GI:18706032
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<pre>Tel: 314 286 1800 Fax: 314 286 1810 Fax: 314 286 1810 Email: mouseest@watson.wustl.edu This clone is available royalty-free through LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information. MGI:523011 Seq primer: -28m13 rev2 ET from Amersham High quality sequence stop: 332. FEATURES FEATURES</pre>	<pre>source 1524</pre>	<pre>vas primed with ā Not I - oligo(dT) primer [5' TGTTACGAATCTGAAGTGGGAGGGGGGCGCCTTTTTTTTT</pre>		Qy 48 ACCCCGACGACATGGTGGGGGTCTTTTGTGTGGGGGGTGTGCGACCGT 107 bb 36 ATCCCTCACCTCCTGGGGGGTGTGGTGTTCTTGTGGGGCTGTAACCTGCTGGCCCACTTC 95 Qy 108 ATTATTCCGGACTAGTTCGGG GGTGTGGGGCTGTTGGGGGCTGTAACCTGCTGGCCCACTTC 95 Db 96 ATCATTCCGGACTAGTTCGGG 129 Db 96 ATCATGCTGCTGCGGG 117	υz	Σ	AUTHORS Wang, C.S., Hu,G. and St. Leger,K.J. TITLE Gene expression profiling of Metarhizium anisopliae grown under different conditions: mechanisms of fungal opportunism JOURNAL Unpublished (SO04) COMMENT Contact: Wang CS COMMENT Department of Entomology University of Maryland 4112 Plant Sciences Building, College Park, MD 20742, USA Email: evang4@und.edu	Seq primer: M13 Reverse. FEATURES Seq Diocation/Qualifiers source 1938 /organism="MENA" /mol_type="mENA" /db_rtef="taxon:5530"
<pre>SOURCE Sarcoptes scabiei ORGANISM Sarcoptes scabiei Evkaryota; Metazoa; Arthropoda; Chelicerata; Arachnida; Acari; Bukaryota; Metazoa; Astigmata; Psoroptidia; Sarcoptoidea; Acariformes; Sarcoptiformes; Astigmata; Psoroptidia; Sarcoptoidea; Sarcoptidea; Sarcoptes. REFERENCE 1 (Dases 1 to 429) AUTHORS Ljunggren, E.L., Nilsson, D., Naslund, K. and Mattsson, J.G. Acarific Expressed sequence tag analysis of the parasitic mite Sarcoptes acabiei</pre>	JOURNAL Unpublished (2001) COMMENT Contact: Mattsson J.G. Department of Parasitology (SWEPAR) National Veterinary Institute SE-751 89 Uppsala, Sweden Tel: +46 18 674120 Fax: +46 18 674120 Control of 17495754 [pir]T19130 hypothetical protein C09F9.2	<pre>FEATURES High quality sequence stop: 429. FEATURES Location/Qualifiers 1.429 source /organism="sarcoptes scabie!" /nol_type="mRNA" /db_tref="taxon:52283" /db_tref="taxon:52283" /db_tref="taxon:52283" /olone="fib="sarcoptes scabie! cDNA library" /note="The Sarcoptes scabie! cDNA library" /note="The Sarcoptes scabie! cDNA library" /note="The Sarcoptes scabie! cDNA library"</pre>	<pre>from poly(A) + RNA by oligo d(T) priming, size-selected and directionally cloned into the Uni-ZAP lambda vector (Stratagene). The primary library was amplified on XLI-Blue MRF' cells."</pre>	ORIGIN OUEry Match 23.9%; Score 30.8; DB 4; Length 429; Best Local Similarity 57.1%; Pred. No. 27; Matches 56; Conservative 0; Mismatches 42; Indels 0; Gaps 0; Qy 2 GACCTTCTGCTCGTAGCGATTACTTCGAGGATACTGACGACAAAGACCCCGAGGAT 61 	OY 62 GGTCGGGGTCTTTTTGTTGTGGGGCGGCGGGGGGGGGG	RESULT 5 AAS17086 AAS17086 524 bp mRNA linear EST 14-JUL-1997 LOCUS AAS17086 AAS17086 DEFINITION Wh98f10.rl Barstead mouse myotubes MPLRB5 Mus musculus CDNA clone NMAGE:902347 5', mRNA sequence. ACCESSION AAS17086.l GI:2256675 VERSION AAS17086.l GI:2256675	NISM NCE ORS	TITLE The WashU-HHMI Mouse EST Project JOURNAL Unpublished (1996) COMMENT Contact: Marra M/Mouse EST Project WashU-HHMI Mouse EST Project Washington University School of MedicineP 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108

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<pre>/clone="B819" /clone="B819" /clone_lib="Metarhizium anisopliae ARSEF 2575 from insect blood" - Note="Vector: pCMV.SPORT6.1; Metarhizium anisopliae was from in insect haemolymph for 24 hours. A cDNA library was constructed in the vector pCMV.SPORT6.1" ORIGIN</pre>	Query Match23.94; Score 30.8; DB 7; Length 938;Best Local Similarity 63.54; Pred. No. 31;Matches47; Conservative0;Matches77; Conservative0;777 </td <td>RESULT 7 AJ282728/c LOCUS LOCUS DEFINITION 4A3A-ABB-D-05-R Anopheles gambiae immune competent 4A3A Anopheles gambiae cDNA clone 4A3A-ABB-D-05, mRNA sequence. ACCESSION AJ282728. GI:6930607 VERSION AJ282728.1 GI:6930607 KEYWORDS EST. SOURCE Anopheles gambiae (African malaria mosquito) ORGANISM Anopheles gambiae</td> <td><pre>Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Anopheles. AUTHORS Dimopoulos,G., Casavant,T.L., Chang,S., Scheetz,T., Roberts,C., AUTHORS Dimopoulos,G., Casavant,T.L., Benes,V., Bork,P., Ansorge,W., Soares,M.B. Donohue,M., Schultz,J., Benes,V., Bork,P., Ansorge,W., Soares,M.B. TITLE Anopheles genbiae filot gene discovery project: identification of ADDALE ANDON AND States and Matatos, F.C.</pre></td> <td> MOURNAL Proc. Natl. Acad. Sci. U.S.A. 97 (12), 6619-6624 (2000) JOURNAL Proc. Natl. Acad. Sci. U.S.A. 97 (12), 6619-6624 (2000) MEDLINE 20300950 PUBMED 10841561 COMMENT Fortact: Dimopoulos G COMMENT Fotis C. Kafatos laboratory Buropean Molecular Light Laboratory FEATURES Location/Qualifiers </td> <td><pre>source 1199</pre></td> <td>CDNA. The 4A3A is a directionally cloned and normalized CDNA library that was constructed from the 43A cell line oligor primed CDNA according to: Bonaldo, Lennon & Soares (1996) : Normalization and Subtraction: Two approaches To Facilitate Gene Discovery, Genome Research 6, 791-806." Query Match 23.7%; Score 30.6; DB 1; Length 199; Best Local Similarity 55.0%; Pred. No. 28; Matches 60; Conservative 0; Mismatches 49; Indels 0; Gaps 0; Query 12 TCGTAGCGATTACTTCGAGGACAAAGACCCCGAGGATGGTCGGGGTC 71</td>	RESULT 7 AJ282728/c LOCUS LOCUS DEFINITION 4A3A-ABB-D-05-R Anopheles gambiae immune competent 4A3A Anopheles gambiae cDNA clone 4A3A-ABB-D-05, mRNA sequence. ACCESSION AJ282728. GI:6930607 VERSION AJ282728.1 GI:6930607 KEYWORDS EST. SOURCE Anopheles gambiae (African malaria mosquito) ORGANISM Anopheles gambiae	<pre>Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Anopheles. AUTHORS Dimopoulos,G., Casavant,T.L., Chang,S., Scheetz,T., Roberts,C., AUTHORS Dimopoulos,G., Casavant,T.L., Benes,V., Bork,P., Ansorge,W., Soares,M.B. Donohue,M., Schultz,J., Benes,V., Bork,P., Ansorge,W., Soares,M.B. TITLE Anopheles genbiae filot gene discovery project: identification of ADDALE ANDON AND States and Matatos, F.C.</pre>	 MOURNAL Proc. Natl. Acad. Sci. U.S.A. 97 (12), 6619-6624 (2000) JOURNAL Proc. Natl. Acad. Sci. U.S.A. 97 (12), 6619-6624 (2000) MEDLINE 20300950 PUBMED 10841561 COMMENT Fortact: Dimopoulos G COMMENT Fotis C. Kafatos laboratory Buropean Molecular Light Laboratory FEATURES Location/Qualifiers 	<pre>source 1199</pre>	CDNA. The 4A3A is a directionally cloned and normalized CDNA library that was constructed from the 43A cell line oligor primed CDNA according to: Bonaldo, Lennon & Soares (1996) : Normalization and Subtraction: Two approaches To Facilitate Gene Discovery, Genome Research 6, 791-806." Query Match 23.7%; Score 30.6; DB 1; Length 199; Best Local Similarity 55.0%; Pred. No. 28; Matches 60; Conservative 0; Mismatches 49; Indels 0; Gaps 0; Query 12 TCGTAGCGATTACTTCGAGGACAAAGACCCCGAGGATGGTCGGGGTC 71

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protein precursor - sea urchin [Strongylocentrotus purpuratus] seq primer: T3 primer High quality sequence stop: 528. FEATURES Location/Qualifiers source 1. 528 /organism="Sarcoptes scabie!" /mol_type="mRNA" /mol_type="mRNA" /mol_type="mRNA" /db_rref="raxon:52283" /db_rref="raxon:52283" /db_rref="raxon:52283" /db_rref="raxon:52283" /db_rref="raxon:52283" /db_rref="raxon:52283" /db_rref="raxon:52283" /db_rref="raxon:52283" /db_rref="raxon:52283" /db_rref="raxon:52283" /db_rref="raxon:52283" /db_rref="raxon:52283" /db_rref="raxon:52283" /db_rref="raxon:52283" /db_rref="raxon:52283" /db_rref="raxon:52283" /db_rref="raxon:52283" /db_rref="raxon:52283" /db_rref="raxon:52283" /db_rref="raxon:5283" /db	Query Match 23.4%; Score 30.2; DB 4; Length 528; Best Local Similarity 56.6%; Pred. No. 45; Matches 56; Conservative 0; Mismatches 43; Indels 0; Gaps 0; Qy 2 GaccrrcrGcTcGTGGGATTACTGGGCATTACTGAGGACAAAGACCCGAACGAGAT 61 [1] 1 1 1 1 1 1 1 1 1	BEFINITIONBS52233539 bpmRNAlinearEST 19-FEB-2002LOCUSESSU0771S.scabiei cDNA ibbrary Sarcoptes scabiei cDNA cloneSAS0008 5', mRNA sequence.SAS0008S', mRNA sequence.SAS0008 5', mRNA sequence.ACCESSIONBM522233.1GI:18706995ACCESSIONBM522233.1GI:18706995KEYWORDSESTSarcoptes scabieiSOURCESarcoptes scabieiActional statemanSOURCESarcoptes scabieiActional statemanSOURCESarcoptes scabieiActional statemanSOURCESarcoptes scabieiActional statemanSOURCESarcoptes scabieiActional statemanSARTYOTA, MELAZOA ALIDADAA; Acari;Acariformes; Astigmata; Psoroptidia; Sarcoptodea;REFERENCE1(bases 1 to 53)AUTHORSLiumggren, E.L., Nilsson, D., Naslund, K. and Mattsson, J.G.JOUNNALUnpublished (2001)JOUNNAL	e U	<pre>/db xref="taxon:52283" /clone="SAS0908" /clone="sAS0908" /note="The Sarcoptes could intege library was /note="The Sarcoptes scabiei mixed lifestage library was constructed by Jens G Matteson. CDNAs were synthesized from poly(A)+ RNA by oligo d(T) priming, size-selected and directionally cloned into the Uni-ZAP lambda vector (Strategene): The primary library was amplified on XLLBlue MRF' cells."</pre>
<pre>Eukaryota; Metazoa; Arthropoda; Chelicerata; Arachnida; Acari; Acariformes; Sarcoptiformes; Astigmata; Psoroptidia; Sarcoptoidea; Sarcoptidae; Sarcoptes arcoptidae; Sarcoptus i (bases 1 to 494) AUTHORS i (bases 1 to 494) AUTHORS i (bases 1 to 494) AUTHORS i (bases 1 to 494) Expressed sequence tag analysis of the parasitic mite Sarcoptes scabiei JOURNAL Unpublished (2001) COMENT Contact: Mattson J.G. Department of Parasitology (SWEPAR) National Veterinary Institute SE-751 89 Uppsaid, Sween Fax: 446 18 Exar: 446 18 Email: jens.mattsson@sva.se Smail: jens.mattsson@sva.se Smail: jens.mattsson@sva.se Smail: jens.mattsson@sva.se</pre>	<pre>FBATURES location/Qualifiers to the primer: T3 primer figh quality sequence stop: 494. FBATURES location/Qualifiers locat</pre>	ORIGIN 23.4%; Score 30.2; DB 4; Length 494; Query Match 23.4%; Score 30.2; DB 4; Length 494; Best iocal Similarity 56.6%; Pred. No. 44; 0; Gaps 0; Matches 56; Conservative 0; Mismatches 43; Indels 0; Gaps 0; QV 2 GACCTTCRGCTGGTATACTTCCGGGATTACTGAGAAAGACCCGACGAGAT 61 Db 135 GACCATGAGGAGTTACTTCCGGGCATGAACGACGACGAGAGAGGGCCCAATGAGAAT 76 QY 62 GGTCGGGGGTCTTTTGTTGTGGGGGGTGTTGTCGGGGGGG	BM522043/C LOCUS BM522043 DEFINITION BM522043 DEFINITION BSSU0560 S.Scabiei CDNA library Sarcoptes scabiei CDNA clone SAS0706 5', mRNA sequence. ACCESSION BM522043.1 G1:18705601 KEYWORDS BM522043.1 G1:18705601 KEYWORDS Sarcoptes scabiei CORGANISM BM522043.1 G1:18705601 KEYWORDS Sarcoptes scabiei CORGANISM Sarcoptes scabiei CALE Sarcoptes Scabiei CALE Sarcoptes Scabiei CALE Sarcoptes Scabiei CALE Sarcoptes Sarcoptes. AUTHORS Sarcoptes E.L., Nileson, D., Naslund, K. and Mattsson, J.G. TILLE Sarcoptes Sarcoptes Sarcoptes Sarcoptes. Sarcoptes Sarcoptes. Sarcopted Sequence tag analysis of the parasitic mite Sarcoptes	JOURNAL Unpublished (2001) Unpublished (2001) COMMENT Contact: Mattsson J.G. Department of Parasitology (SWEPAR) National Veterinary Institute SE-751 89 Uppsala, Sweden Tel: +46 18 674120 Fax: +46 18 Samil: jens.mattsson@sva.se Email: jens.mattsson@sva.se Similar to gi[7512096[pir]T17405 scavenger receptor cysteine-rich

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VEKSLON BG81/916.1 G1:14188895 KEYWORDS EST. SOURCE Sarcoptes scabiei ORGANISM Sarcoptes scabiei ORGANISM Sarcoptes scabiei Acariformes; Arthropoda; Chelicerata; Arachnida; Acari; Acariformes; Sarcoptiformes; Astigmata; Psoroptidia; Sarcoptoidea. REFERENCE 1 (bases 1 to 577)
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/clone lib-"S.scabiei cDNA library" /note="The Sarcoptes scabie! mixed lifestage library was constructed by Jens G Mattsson. CDNAs were synthesized constructed by Jens G Mattsson (T) priming, size-selected and directionally cloned into the Uni-ZAP lambda vector (Strategnes). The primary library was amplified on XL1-Blue MRF' cells." BG817905 52-MAY-2001 ESSU0327 S.scabiei cDNA library Sarcoptes scabiei cDNA clone ESS0423 5', mRNA sequence. Sarroptes scabiei Sarroptes scabiei Barroptes scabiei Bukaryota; Metazoa; Arthropoda; Chelicerata; Arachnida; Acari; Rarroptides; Sarcoptiformes; Astigmata; Psoroptidia; Sarcoptoidea; Sarroptidae; Sarcoptes. 1 (bases 1 to 599) 1 (bases 1 to 590) 1 (bases 1 to ö 423 GACCATGAGGACGTGCACATGTTCTCGGGCATGAACGACCACAAGGAGCCCAATGAGAAT 364 2 GACCTTCTGCTCGTAGCGATTACTTCGAGCATTACTGACGACAAAGACCCCGGACCGAGAT 61 Email: jens.mattsson@sva.se Similar to pir[T17405 scavenger recepto r cysteine-rich protein precursor - sea urchin (Strongylocen trotus purpuratus). Seq primer: T3 primer High quality sequence stop: 599. Location/Qualifiers National Versinary Institute SE-751 89 Uppsala, Sweden Tel: +46 18 674120 Fax: +46 18 674120 Email: jens.mattsson@sva.se Email: jens.mattsson@sva.se Similar to pir[T17405 scavenger recepto r cysteine-rich protein similar to pir[T17405 scavenger recepto r cysteine-rich protein Seq primer: T3 primer High quality sequence stop: 577. High quality sequence stop: 577. Gaps ö Query Match 23.4%; Score 30.2; DB 4; Length 577; Best Local Similarity 56.6%; Pred. No. 45; Matches 56; Conservative 0; Mismatches 43; Indels 1 62 GGTCGGGGTCTTTTTGTTGTGGTGCTGTGACGTGTTGTC 100 363 Griradedecarcrereridadererrridecaardrerrid 325 1. .599 /organia="Sarcoptes scabiei" /mol_type="mRNA" /db_xref="taxon:52283" /organism="Sarcoptes scabiei" Department of Parasitology (SWEPAR) (SWEPAR) Contact: Mattsson J.G. Department of Parasitology (SWE) National Veterinary Institute SE-751 89 Uppsala, Sweden Tel: +46 18 674120 Fax: +46 18 /mol_type="mRNA" /db_xref="taxon:52283" /clone="SAS0437" /clone="SAS0423" BG817905 BG817905.1 GI:14188885 Unpublished (2001) L. .577 KEYWORDS SOURCE ORGANISM source source RESULT 15 BG817905/c DEFINITION REFERENCE AUTHORS TITLE ACCESSION VERSION JOURNAL FEATURES FEATURES COMMENT ORIGIN LOCUS å δ g 8

/clone lib="S.scabie! CDNA library" /note="The Sarcoptes scabie! mixed lifestage library was constructed by Jens G Mattsson. CDNAs were synthesized from poly(A) + RNA by oligo d(T) priming, size-selected and directionally cloned into the Uni-ZAP lambda vector (Strategene). The primary library was amplified on XL1-Blue MRF' cells." õ 423 caccargadoaccargererereredocargadeaccaccaccacadedeace 364 5 2 GACCTTCTGCTCGTAGCGATTACTTCGAGCATTACTGACGACGACCCCGGACCGGAGAT Gaps .. 0 DB 4; Length 599; 43; Indels 62 GGTCGGGGTCTTTTTTGTTGTGGTGCTGTGACGTGTTGTC 100 GTTTAGGGCATCTGTGGTGAGGTCTTTTGCAATGTCTTC 325 23.4%; Score 30.2; DE 56.6%; Pred. No. 46; rative 0; Mismatches 56; Conservative Best Local Similarity 363 Query Match Matches ORIGIN 8 q 8 å

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QY 121 AGTTCAGCG 129 Db 1636 AGTTCAGCG 1628 Db 1636 AGTTCAGCG 1628 RESULT 4 AX492788/c AX492788/c AX492788 LOCUS AX492788 DEFINITION Sequence 1106 from Patent EP1227152. ACCESSION AX492788.1 GISSION AX492788.1	<pre>EXYMORGS ::::::::::::::::::::::::::::::::::::</pre>	

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<pre>[Guillardia: B=3e-10 COG: Rv2442c; COG0361 Ribosomal protein L21; B=3e-07 FFAM: PF00829; Ribosomal prokaryotic L21 prot: B=2.2e-36 / codon start=1 / transl_table=11 / protein_id="CAD78720.1" / complement(17672018) / locus_tag="RB10135" / codon start=1 / transl_table=11 / transl_table=11 / transl_table=11 / product="hypothetical protein" / product="hypothetical protein" / transl_table=11 / transl_table=11 / product="hypothetical protein" / transl_table=11 / transl_table=11 / transl_table=11 / transl_table=11 / product="hypothetical protein" / transl_table=11 / transl_table=11 / transl_table=11 / transl_table=11 / transl_table=11 / product="hypothetical protein" / transl_table=11 // transl_ta</pre>	/protein_id="CAD78722.1" /db_xref="GI:32446816" /translation="MLVLRNRSELSVGYSGAARAARCVTGGLAPNGTYFTPPQGGCEF LRASPVTP" complement (21512372) /locus tag="RB10137"	<pre>complement(21512372) /locum_tag="mailto:" /codon_state1 /transf_table=11 /transf_table=11</pre>	<pre>/product="hypothetical protein-putative conserved hypothetical protein" /protein_id="CAD78723.1" /db.ref="G1:32446817" /trainslation="MSRRSGVLYDAPLEPKRSLGGGRATPFRRTRGRGFSMENGADC prpgIsLINARPFPPAARAGFSRYWRCT" complement(24783281) /locus_tag="mB10138" /locus_tag="mB10138" /locus_tag="RB10138" /function="inner membrane organization" /function="inner membrane organization" /rotes="best" /rotes="best" /rotes="best" /codon start=1 /trainsT_table=11</pre>	<pre>/product="conserved hypothetical protein-putative membrane lipoprotein" /protecin_d="CAD78734.1" /proprotein" /bref="GI:32446818" /translation="MELVTDFFNAPFLQRNSTSSALMSLVFAGCCLLNVGFESIAEA DEPEADTSNSVSVERPTINAPGMRQLDGDDFVRVNGDDQTLTWEGTEALGSGOPIGVTR TNFEVKNFELV10MKHLKPAGNSGVFAWVPMSALKOLPPNHLPNTGIEVOMUDLDVGR MYTEKTGKPPTWFTSHGDIFAVGKSSNQPFPPLSPDGHRSPFSAETTNPHGEWNQYYV RGITMNGVEVKGSRSCSPDEGFLCLESEGGSPIRFREIWLRELP" complement(3392.3521) /locus_tag="RB10139" /locus_tag="RB10139" /locus_tag="RB10139" /locus_tag="RB10139" /locus_tag="RB10139" /codoct="hypothetical protein" /fransl_table=11 /transl_table=11 /transl_table=11 /transl_table=11 /transl_table=11 /translation="MRHKHDRMKIRGISKNPIDLPSRYRGRVLKPKKRRSFRSFLRE /translation="MRHKHDRMKIRGISKNPIDLPSRYRGRVLKPKKRRSFRSFLRE /translation="MRHKHDRMKIRGISKNPIDLPSRYRGRVLKPKKRRSFRSFLRE</pre>
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Quality coverage: 8.03 This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or coveredby high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; allogions were covered by at least one plasmid Sequence; assembly was additionally confirmed by long range per and cosmid end sequences. 	Location/Qualifiers 1295650 /organism="Rhodopirellula baltica SH 1" /mol_type="genomic DNA" /dh *rrf="taxon:241900"	complement (414 1508) /gene="pknH" /locus_tag="RB10133" complement (414 1508)	<pre>ied signal transduction; unspeci led regulatory protein; cellula l transduction" : BLAST: swissprot:011053; PKNH ONINE-PROTEN; E=35 embl:CAB5 serinethreonine-protein; E=1e-3 3132604) hypothetical protein serinethreonine-codo515 serin kinases; E=3e-36 PFAM: PFC in; E=7.6e-54"</pre>	<pre>/product="probable serine/threonine-protein kinase pknH" /product="probable serine/threonine-protein kinase pknH" /pb_rtef="dt1:324481.3" /bb_rtef="dt1:324481.3" /bb_rtef="dt1:324481.3" /bb_rtef="dt1:324481.3" /bb_rtef="dt1:324481.3" /bb_rtef="dt1:324481.3" /bb_rtef="dt1:324481.3" /bb_rtef="dt1:32471351.7" /bb_rtef="dt1:32471351.7" /bb_rtef="dt1:32471351.7" /bb_rtef="dt1:32471351.7" /bb_rtef="dt1:32471351.7" /bb_rtef="dt1:334" /bb_rtef="dt1:334" /bb_rtef="dt1:334" /bb_rtef="dt1:334" /bb_rtef="dt1:3443" /bb_rtef="dt1:344" /bb_rtef="dt1</pre>
	FEATURES' source	gene CDS		gene CDS

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<pre>/chromosome="III" 550. :1380 550. :1380 /gene="ECU03_0010" 550. :1380 /gene="ECU03_0010" /gene="ECU03_0010" /function="unknown, gene found by Glimmer [Bad Olap 2 /foote="03_0010, unknown, gene found by Glimmer [Bad Olap 2 /foote="10" /codon_start=1 /protein id="CAD26148.1" /db_xref="GI:19168629"</pre>	<pre>/translation="MAAPTOLETARKHSNOSEGEPAPLAEFTAMPKENSHLAND SUHPDFRSKSARLRCOPFRTNUCGTFKOPEVAATSFCARFYCPPFLQPFTKGTPPFKG KUNITEGGTHTBANDENTKHTETBP11SHCZPPHCGPTATPNLLPCPNPTSFCON TRDSPSLPPQRPNNMH1PETPLQRRLSPSQLFITIPESPYLLSTAKTYYYLQPPYLDT LSHEIHFIVPLLCPYEHHTHNRAARREPATLENNPRHRSIRLNYIPSHHVPHLRRRQF 1211. 2020 /gene="ECU03 0020" /function="Unknown" /function="Unknown"</pre>	hetical protein" D26149.1" D26149.1" E8630" E88530" E885215FAHMNITHTTEQHAENQPHWKTILDIAPFVSIT F85158715FAHMNITHTTEQHAENQPHWKTILDIAPFVSIT F85181587111515815777972581558771797 T1PFSLNEWDHAASFF791715515871215858771797 T1VNLLVFKEFNYTP75A1155158712152584721576055 T1VNLLVFKEFNYTP75A115515871268787512987940" . 35781	<pre>/gene="ECU03_0030" complement(32223578) /gene="ECU03_0030" /function="unknown" /note="03_0030, unknown, gene found by Glimmer" /codon start=1</pre>	<pre>/product="hypothetical protein" /protein_id="CAD26150.1" /db_rref="G1:19168631.1" /trainslation="NPVGGLuPYLALRSVAYICVFGDSSRAPDLIREAPESPHFKR PDGAGTYKEAKGRCGMRFADVVNGAFGQISDMADKVGKGEPEVWCIWKKRGEVEMLLK VKEYRKGYGSKRRRRR" 4169. 4975 /gene="ECU30 0040"</pre>	<pre>41694975 _ /gene="BCU03_0040" /function="unknown" /note="03_0040, unknown, gene found by Glimmer" /codon start=1 /product="hypothetical protein" /dh xref="cf11916652" /dh xref="cf11916652"</pre>	<pre>/ translation="MNTTHVPEPHRTEQHTENLQHWRKILGIAPIVSIAFPAIMYFIF TKDSFEDSLFIRFTTLLSFSFAQV7ANLHHTWKSHNKSFAGILHTTYTJNLLLL AFSIISILSTTTLPINKWRNOG9FILESIFLPPLFMSFBYZLGSFLVFOGIGFTDT GINVIIDILTLLCSVGSLLILBESEYCYCFAIISSILLIRLLGEKLSPEKOSPPT APWRIAVFVLILIFAALIYAFWMWVSIDILSDHFDLLTRARSTSVSKFGQ" 5400. 6665 5400. 6665</pre>	/genee=b.cuo.coo. /function="unknown" /note="03_0050, unknown, gene found by Glimmer" /codon_start=1 /protein_id="CADS6152.1" /db_xref="GI:19168633" /translation="MEQISRIKTTLDEVDLDYDERAFRGLSVEKLMVRAFWLISDIVK
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<pre>SRTIILSYHGSTRIHLAQPAFGRCHNPQSSTHQKS" 37075527 /locus_tag="RB10140" 37075527 /locus_tag="RB10140" /function="anion transporters (Cl(-), SO4(2-), PO4(3-), /function="anion transporters (Cl(-), SO4(2-), PO4(3-), /note="Best DB hits: BLAST: pir:B82127; sulfate permease family protein VC2031 [imported] -; E=1e-89 pir:G83325; probable sulfate transporter PA2563 [imported] -; B=5e-53 ddbj:BA804133.1; (AP001508) sulfate permease [Bacillus; E=1e-51 COG: VC2031; COG59 Sulfate permease and related</pre>	25.3%; Score 32.6; DB 1; Length 295650; Similarity 53.5%; Pred. No. 18; B; Conservative 0; Mismatches 59; Indels 0; Gaps TGACCTTCTGCTGGGGATTACTTGGGGATTACTGACGACGAAAAGACCCGGAGAA 	14891 TGTTGTGTTGTTGGGGGGGGGGGGGGGGGGGGGGGGG	ALS90443 ALS90443.1 ALDS opportu Parasite. Encephalitoz	-	Nature 414 (6862), 450-453 (2001) 21576510 11719806 2 (bases 1 to 194439) 2 enoscope Direct Submission Submitted (05-APR-2001) Genoscope - Centre National de Sequencage, comitted (05-APR-2001) Genoscope - Centre National de Sequencage,	<pre>strue descuir Leureux, cr 3700, 3100, 2000,</pre>	The telomeric and subtelomeric sequences are not included in this submission. 1194439 ce 1194439 /organism="Encephalitozoon cuniculi GB-M1" /orl_type="genomic DNA" /strain="GB-M1" /db_xref="taxon:284813"
gene CDS	Quer) Best Match Match	DD 148 QY 148 DD 148 LAB CNS07EGA/C LOCUS DEFINITION	ACCESSION VERSION KEYWORDS SOURCE	UKGANIZAT REFERENCE AUTHORS TITLE	JOURNAL MEDLINE PUBMED REFERENCE AUTHORS TITLE JOURNAL	COMMENT	FEATURES source

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CERMHPAIACYRNLIDSILBDLEEKGHPEGITAVNAAKDALRALEDVVNRKCOILSLS KKAHGTEEPYYFGAIDGYLKDYFGLLKAFKDALRKULHVRGDLKVKVNBMKLLEAMS DFLKVLKKQLDGEKVQERPSTLDIYKYLMNEVNEVVELHVRGDLKVKVNBMKLLEAMS NWSYYFDDIRALAITFQKTFQHDIDBASLSRTINBLLGLEGEGUSVYFEAN MSYFYPDIRALAITFQKTCHNIDDASLSRTINBLLGLESELGGNTREREKGLSD LKERISDLESCKLKALRTSCTRVIDDVESNGKSFSDAFSELNGMLREREKGLSD LKERISDLENDSSPKULGELFFMFTAILAIHSFLHLAEDKNSRVKTRWNTALYS LVAGTINHQWVLMGGGCTGMRMGQVMC" 6782. 7153 69ene="ECU03 0060" 6782. 7153 69ene="ECU03 0060" 6782. 7153 6000 = "Unknown" 7000 = "Unknown" 7000 = "Unknown" 7000 = 103 0060, unknown, gene found by Glimmer [Delay by 228 5 109 38] 7000 = 103 0060, unknown, gene found by Glimmer [Delay by 228 5 109 38] 7000 = 103 0060, unknown, gene found by Glimmer [Delay by 228 5 109 38] 7000 = 103 0060, unknown 7000 = 103 0050, unknown 7000 = 103 0050, unknown 7000 = 103 0050, unknown 7000 = 103 0050, unknown 7000 = 1000 0050, unknown 7000 = 10000, unknown 7000 = 10000 0050, unknown 7000 = 10000, unknown 7000 = 10000 0050, unknown 7000 = 10000 0050, unknown 7000 = 10000 0050, unknown 7000 = 10000 0050, unknown 7000 = 10000 0050 0050 00500 00500 00500 00500 0050 005000000	<pre>skUTFMLCKKGLDMLGIAAS complement (76427953) /gene="ECU03_0070" complement (76427953) /gene="ECU03_0070" /function3_0070, unknown /note="03_0070, unknown, gene found by Glimmer [Shorter 8 /acdon gtart=1 /codon gtart=1 /product="hypothetical protein" /product="hypothetical protein" /product="Hypothetical protein" /product="Clig16166155" /db_rref="Glig191666155" /translation="MIERRETVLYFQLWMANAMTERNEMTANVMKRALEKYRSILCM APSGLVLSFQLARNRRTIGNAIDMNTARSLGIVPPPIIELVLGVLLCCVCGVHAGKGE % 7112_8189</pre>	<pre>/gene="ECU03_0080" 7112. 8389 7122. 8389 /gene="ECU03_0080" /gene="uninown" /note="uninown" /note="uninown" /note="uninown" / product="uninown" 242 0] 242 0] 242 0] 242 0] 7000 start=1 / codon_start=1 / product="hypothetical protein" / product="hypothetical" / product="hypothe</pre>	<pre>complement (857610444) / gene="ECU03_0090" / gene="ECU03_0090" / function= unknown, gene found by Glimmer" / function="unknown, gene found by Glimmer" / function="unknown, gene found by Glimmer" / codon_start=1 / protein_id="cost5156.1" / protein_id="cost5156.1" / protein_id="cost5156.1" / protein_id="cost5156.1" / protein_id="cost5156.1" / db_xref="c1:19168637" / translation="wGSCPFOTMRNMLVSATALVDILCTSKIEBLVENMGKKIEBALP / protein_id="cost5156.1" / db_xref="c1:19168637" / translation="wGSCPFOTMRNMLVSATALVDILCTSKIEBLVENMGKKIEBALP / protein_id="cost5156.1" / db_xref="c1:19168637" / db_xref="c1:19168637" / db_xref="c1:19168637" / translation="wGSCPFOTMRNMLVSATALVDILCTSKIEBLVENMGKKIEBALP / protein_id="cost5156" / db_xref="c1:19168637" / db_xref="c1:19168637" /</pre>
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ACL38544 92770 bp DNA linear HTG 20-MAR-2004 Magnaporthe grisea chromosome 7 clone 15G13, *** SEQUENCING IN PROGRESS ***. ACLJ8542 90417 bp DNA linear HTG 20-MAR-2004 Magnaporthe grisea chromosome 7 clone 12G19, *** SEQUENCING IN PROGRESS ***. 2 (bases 1 to 90417) Dean, R.A. Dr, Mitchell, T. Dr, Thon, M. Dr and Brown, D.E. Direct Submission Submitted (09-JAN-2003) Plant Pathology - Fungal Genomics Laboratory, North carolina State University, 840 Main Campus Drive, Raleigh, NC 27666, USA 3 (bases 1 to 90417) Direct Submission Submitted (20-MAR-2004) Center for Integrated Fungal Research, Submitted (20-MAR-2004) Center for Integrated Fungal Research, North Carolina State University, Plant Pathology - 840 Main Campus Dr, Raleigh, NC 27606, USA On Mar 20, 2004 this sequence version replaced gi:27552536. * NOTE: This is a 'working daraft' sequence. It currently * consists of 1 contigs. Gaps between the contigs * are represented as runs of N. The order of the pieces Thon, M.R., Mitchell, T., Brown, D.E., Diener, S., Taro, A., Pan, H. and Thon, M.R., Mitchell, T., Brown, D.E., Diener, S., Taro, A., Pan, H. and 5 CTTCTGCTCGTAGCGATTACTTCGAGCATTACTGACGACGAGGACGGAGCGGAGGATGGT Pezizomycotina; Sordariomycetes; Gaps Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes Sordariomycetes incertae sedis; Magnaporthaceae; Magnaporthe. is believed to be correct as given, however the sizes of the gaps between them are based on estimates that have provided by the submittor. This sequence will be replaced by the finished sequence as soon as it is available and the acession number will be preserved. 1 90417: config of 90417 bp in length. ö DB 2; Length 90417; Indels Magnaporthe grisea (anamorph: Pyricularia grisea) Magnaporthe grisea AC138544.2 GI:45597492 HTG; HTGS PHASE2. Magnaporthe grisea (anamorph: Pyricularia grisėa) The sequence of Magnaporthe grisea chromosome 7 51; 1. .90417
/organism="Magnaporthe grisea" Pred. No. 44; ; Mismatches 24.3%; Score 31.4; 54.9%; Pred. No. 44 Location/Qualifiers ;0 AC138542.2 GI:45597487 HTG; HTG2_PHASE2. (bases 1 to 90417) 62; Conservative Best Local Similarity Matches 62; Conserv Unpublished Dean, R.A. Dean, R.A. AC138544 AC138542 Query Match source AC138542/c LOCUS RESULT 10 AC138544/c DEFINITION DEFINITION ORGANISM AUTHORS TITLE TITLE JOURNAL ACCESSION VERSION KEYWORDS SOURCE ACCESSION VERSION KEYWORDS AUTHORS JOURNAL REFERENCE AUTHORS REFERENCE JOURNAL REFERENCE FEATURES RESULT 9 TITLE COMMENT ORIGIN SOURCE LOCUS 8 đ 8 ą URL: http://cdnaol.dna.affrc.go.jp/CDNA/ NIAS Rice Full-Length CDNA Project Team: Kikuchi,S., Satoh,K., NiAS Rice Full-Length CDNA Project Team: Kikuchi,S., Satoh,K., Nagata.T., Kawagashira.N., Doi,K., Hotta,I., Kojima,K., Namiki,T., Ishikawa,M., Yamada,H., Ooka,H., Hotta,I., Kojima,K., Shishiki,T., Yamamoto,M. and Nakahama,Y. FAIS Genome Sequencing & Analysis Group: Otomo,Y., Iida,Y., FUJimura,T., Ikeda,R., Ishibiki,J., Kawamata,M., Nura,J., Miura,J., Mizuno,K., Nazikawa,R., Niikura,J., Oka,M., Ryu,R., Sugano,S., Suoshimura,A., Suzuki,Y., Teunoda,Y., Jeda,M., Ryu,R., Sugano,S., Yoshimura,A., Matsubara,K. and Murakami,K. Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Exploratory in Riken: Adachi,J., Aizawa,K., Hirao,A., Hashizune,W., Hayatsu,N., Hirangaki,T., Hirao,A., Hashizune,W., Hayatsu,N., Hiyataki,T., Kishikwa-Hirozo,S., Yoshimura,A., Murada,S., Hanagaki,T., Kishikwa-Hirozo,S., Yoshimura,K., Numasaki,A., Murata,M., Kishikwa-Hirozo,S., Yoshimura,K., Numasaki,A., Murata,M., Koya,S., Kurihara,C., Matuyama,T., Miyazaki,A., Murata,M., Nakamura,M., Nishi,K., Nomura,K., Numasaki,A., Maki,K., Shinagawa,J., Sano,H., Sasaki,C., Sakai,K., Shinagawa,A., Shirzh,C., Sakai,K., Shinagawa,A., Shirzh,Y., Tagami,M., Shinagawa,A., Shirzh,Y., Shinagawa,A., Shirzh,Y., Tagami,M., Yasunishi,A., and Hayashizaki,Y., Cono,M., Osato,N., Sakai,X., Rasunishi,A., and Hayashizaki,Y., Dono,M., Osato,N., Sakai,Y., Rasunishi,A. and Hayashizaki,Y. Masuda,H., Matsubara,K., Matsuyama,T., Miura,J., Miyazaki,A., Mizuno,K., Murakami,K., Murata,M., Nagata,T., Nakahama,Y., Nakamura,M., Namiki,T., Narikawa,R., Nikura,J., Nishi,K., Oka,M., Nomura,K., Numasaki,R., Ohneda,E., Ohno,M., Ohtsuki,K., Oka,M., Ooka,H., Osato,N., Ota,Y., Ohnoo,M., Ohtsuki,K., Oka,M., Sakai,K., Sakazume,N., Sano,H., Sasaki,D., Sato,K., Satoh,K., Sugano,S., Sugiyama,A., Shiraki,T., Shishiki,T., Sogabe,Y., Sugano,S., Sugiyama,A., Shiraki,T., Takaku-Akahira,S., Tagami-Takeda,Y., Tagawa,A., Takahashi,F., Takaku-Akahira,S., Xie,Q., Yahagi,W., Yamada,H., Yamamoto,M., Yasunishi,A., Yazaki,J., Yokomizo,S. and Yoshiwura,A. ö 565 Submitted (31-JJN-2003) Shoshi Kikuchi, National Institute of Agrobiological Sciences, Department of Molecular Genetics, Head of Laboratory of Gene Expression; 2-1-2 Kannondai, Tsukuba, Ibaraki 305-8602, Japan (E-mail:skikuchi@nias.affrc.go.jp, Tel:81-29-838-7007, Fax:81-29-838-7007) This clone is one of the 32K full-length CDNA clones from japonica 75 506 AGTTATCACAGCATGGCTCTCTGCACCCTGACCGCCAACGAGCTGGCTTCCAGCTGTT Gaps organism="Oryza sativa (japonica cultivar-group)" ; 0 Length 3048; Indels 32; DB 8; 0; Mismatches Score 31.8; 1 Pred. No. 31; /moi_type="mRNA" /cultivar="Nipponbare" /db_xref="taxon:39947" /clone="002-178-D02" 566 TGTTGTGGTGCTGTGGTGTTTTG 588 76 TGTTGTGGTGCTGTGACGTGTTG 98 ch 24.7%; 1 Similarity 61.4%; 51; Conservative (bases 1 to 3048) from japonica řice Unpublished Submission 1. .3048 Query Match Best Local Similarity Kikuchi Direct rice. source TITLE JOURNAL Matches JOURNAL REFERENCE AUTHORS FEATURES TITLE COMMENT ORIGIN đ 8 5

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Legaspi,R., Maduro,Q.L., Maduro,V.B., Margulies,E.H., Masiello,C., Maskeri,B., McDowell,J., Paguirigan,C., Peareon,R., Portnoy,M.E., Prasad,A., Reddix-Dugue,N., Schandler,K., Schneler,M.G., Shah,K., Sison,C., Stantripop,S., Thomas,J.W., Thipouri,V., Vogt,J.L., Wetherby,K.D., Wiggins,L., Young,A. and Green,E.D. UNINL Unpublished REFERENCE 2 (bases 1 to 128428) AUTHORS Green,E.D. TITLE SUCOMPARATIVE Sequencing Initiative AUTHORS Green,E.D. TITLE Submitted (23-MAY-2003) NIH Intramural Sequencing Center, 8717 Growmont Circle, Gaithersburg, MD 20877, USA AUTHORS Green,E.D. REFERENCE 3 (bases 1 to 128428) AUTHORS Green,E.D. AUTHORS Green,E.D. AUTHORS Green,E.D. AUTHORS Green,E.D. AUTHORS Green,E.D. AUTHORS Green,E.D. AUTHORS Green,E.D. AUTHORS Green,E.D. AUTHORS Green,E.D.	Grovemont Circle, Gaithersburg, MD 20877, USA COMMENT On Jun 11, 2003 this sequence version replaced gi:31044309. Center: NIH Intramural Sequencing Center Center code: NISC Web site: http://www.nisc.nih.gov Contact: nisc.zoo@nhgri.nih.gov contact: nisc.zoo@nhgri.nih.gov Center project Information Center project name: 64y Center clone name: 541E10	The sequence data in this record represents an 'enhanced' version of a phase 2 submission. Specifically, the indicated order and orientation of each sequence contig has been established using one or more of the following: read-pair data from individual subclones, overlaps with neighboring clones, alignment with available reference sequence (e.g., human), and/or confirmation by PCR testing. In addition, the sequence assembly is based on at least 8X average coverage in Q20 bases and has been reviewed to rule out gross misassemblies, the low-quality ends of sequence contigs have been trimmed away, and each base is associated with a Phrap-derived quality score.	Chemistry: Dyecter intrator Big Dye; 100% of reads Chemistry: Dyecter intrator Big Dye; 100% of reads Assembly program: Phrap; version 0.990319 Consensus quality: 127698 bases at least Q40 Consensus quality: 127698 bases at least Q40 Consensus quality: 12769 bases at least Q20 Insert size: 130000; agarose-fp Insert size: 127928; sum-of-contigs Quality coverage: 10.65x in Q20 bases; sum-of-contigs Quality coverage: 10.65x in Q20 bases; sum-of-contigs * NOTE: This is a 'working draft' sequence. It currently consists of 6 contigs. Gaps between the contigs	 Fare represented as runs of N. The order of the precess is believed to be correct as given, however the sizes of the gaps between them are based on eatimates that have provided by the submittor. This sequence will be replaced by the finished sequence as soon as it is available and by the finished sequence as soon as it is available and the accession number will be preseved. any 1 33969; contig of 19291 bp in length any 0 34069; gap of unknown length 53461 53361 53360; contig of 19291 bp in length 53461 112500; gap of unknown length 63440 112600; gap of unknown length 112611 112700; gap of unknown length 112701 118744; contrig of 6044 bp in length 112701 118744; contrig of 6044 bp in length 118745 128488; contrig of 9584 bp in length 118745 128488; contrig of 9584 bp in length 118745 128488; contrig of 9584 bp in length source
<pre>ORGANISM Magnaporthe grisea Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes; Sordariomycetes incertae sedis; Magnaporthaceae; Magnaporthe. I bases 1 to 92770) AUTHORS Thon, M.R., Mitchell,T., Brown,D.E., Diener,S., Taro,A., Pan,H. and Dean,R.A. TITLE The sequence of Magnaporthe grisea chromosome 7 JOURNAL Unpublished REFERENCE 2 (bases 1 to 92770) AUTHORS Dean,R.A. Dr, Mitchell,T. Dr, Thon,M. Dr and Brown,D.E. Submitsed (09-JM-2003) Plant Pathology - Fungal Genomics Laboratory, North carolina State University, 840 Main Campus Drive, REFERENCE 3 (bases 1 to 92770) AUTHORS Thon,M.R., Mitchell,T. Brown,D.E., Taro,A., Pan,H. and REFERENCE 3 (bases 1 to 92770) AUTHORS Thon,M.R., Mitchell,T., Brown,D.E., Diener,S., Taro,A., Pan,H. and REFERENCE 3 (bases 1 to 92770)</pre>	<pre>Dean,R.A. Direct Submission Submitted (20-MAR-2004) Center for Integrated Fungal Res North Carolina State University, Plant Pathology - 840 M Dr, Raleigh, NC 27606, USA On Mar 20, 2004 this sequence version replaced gi:275255 * NOTE: This is a 'working draft' sequence. It currently * NOTE: This is a 'working draft' sequence. It currently * consists of 1 contigs. Gaps between the contigs * are represented as runs of N. The order of the pieces * is believed to be correct as given, however the sizes</pre>	 For the gaps between them are based on estimates that have provided by the submittor. This sequence will be replaced This sequence will be preserved. by the finished sequence as soon as it is available and by the finished sequence as soon as it is available and the accession number will be preserved. the accession number will be preserved. the accession number will be preserved. 1 92770 bp in length. fEATURES 1 92770 the grisea" forganism="Magnaporthe grisea" for type="genomic DNA" for type="genomic DNA" for the accession and the grisea" for the accession and the grisea" for the accession and the grisea" for the accession accession and the grisea" for the accession ac	Query Match24.3%Score 31.4; DB 2; Length 92770; Best Local Similarity 54.3%; Pred. No. 44; Matches 62; Conservative 0; Mismatches 51; Indels 0; Gaps 0; Oy 5 CTTCTGCTGGTATACTTCGAGGATTACTGAGGACAAAGACCCGAGGAGGAGGAGGAGGAGGAGGAGGA	RESULT 11 AC144889 LOCUS AC144889 128428 bp DNA linear HTG 11-JUN-2003 DEFINITION BOG tearurus clone RP42-541E10, WORKING DRAFT SEQUENCE, 6 ordered pieces ACCESSION AC144889 C G131581601 ACC44889 C G144889 C G131581601 AC144889 C G128420 AC144889 C G100 AC144889 C G100 AC144889 C G100 AC144889 C G100 AC144889 C G100 AC144889 C G100 AC14489 C G100 AC1448 C G10 AC1448 C G10 AC148 C G10

RS Green, B.D. AL Submitted (12-AUG-2001) NIH CT Submitted (12-AUG-2001) NIH CT Submitted (12-AUG-2001) NIH Grovemont Circle, Gaithersbu Grovemont Circle, Gaithersbu Contest nisc. zoomhgri Conter project Infor Center project name: 405D The sequence data in this re version of a phase 2 submiss Center project name: 405D Center project name: 405D The sequence assembly is bas Consensus quality: 2068 Consensus quality: 2068 Consensus quality: 2069 Consensus quality: 2069 Consensus quality: 2064 Consensus quality: 2068 Consensus quality coverage: 9.14X Proves de by the submittor. Provided by the	 113739 151887; contig of 18149 bp in length 151888 151987; gap of unknown length 151988 151929; contig of 9842 bp in length 161830 161929; gap of unknown length 161930 181367; contig of 19438 bp in length 181368 1814677; gap of unknown length 181468 181468 181468 181368 181468 11207821
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99395043 10464207 2 (bases 1 to 5832) Morona,J.K., Morona,R. and Paton,J.C. Direct Submission Submitted (10-NOV-1998) Molecular Microbiology Unit, Women's and Submitted (10-NOV-1998) Molecular Microbiology Unit, Women's and Children's Hospital, 72 King William Rd, Adelaide, SA 5006, Australia Location/Qualifiers 1 . 5832	<pre>/organism="Streptococcus pneumoniae" /mol_type="genomic DNA" /mtain="19A2" /db_xref="19A" /db_xref="taxon:1313" /note="serogroup: 19" </pre>	<pre>/gene= cparray di88 /gene="cps19AJ" /code="cps19AJ" /code="cps19AJ" /rans_tatt=3 /trans_tatt=1 /protein id="ADD19911.1" /protein id="ADD19911.1" /db_xref="G1:4406247" /db_xref="G1:4406247"</pre>	LIYYPLKTULDUADAYODALIFWTLIFPMOYYEGGWALVIYTYLKULMERDILRVN ALVMLISMGVTLVTTYLLUNSLELTVVSIVVLLALRSIIAELILSKKLDVSVKKDIVLE FLLTLVFISSSWYLPIGLAVIVYTLAYGLYLYLKHEDIKTYLAYFKASKKTSN" 883. 1971 /gene="cp819AK" 883. 1971 /gene="cp819AK" /oodon e="cp819AK"	<pre>/transT_table=11 /product="UDP-N-acety1 glucosamine-2-epimerase" /protein_id="AAD19912.1" /protein_id="AAD19912.1" /db_xref="id1:4406248" /db_xref="id1:4406248" /db_xref="id1:4406248" /db_rref="id1:4406248" /db_rref="id1:4606768" /db_rref="/db_rref="id1:4606768" /db_rref="id1:4606768" /db_rre</pre>	<pre>2134. 3003 /gene="cp819AL" /gene="cp819AL" /codon_start=1 /rrans1_table=11 /product="glucose-1-phosphate thymidylyl transferase" /protein_id="ADD19913.1" /protein_id=</pre>	restructures 20043597 /gene="cps19AM" /gene="cps19AM" /note="cps19AM" /codon_start=1 /transl_table=11 /product="dTDP-4-keto-6-deoxyglucose-3,5-epimerase"
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Jnpublished

(bases 1 to 222330) Worley, K.C

REFERENCE AUTHORS

TITLE JOURNAL

Direct Submission Direct Submitselon Submitted (17-SRP-2001) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA Baylor Plaza, Houston, TX 77030, USA 1 (bases 1 to 222330) Rat Genome Sequencing Consortium. Direct Submission TITLE JOURNAL

REFERENCE AUTHORS

COMMENT

TITLE JOURNAL

Submitted (10-MX-2003) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, US On May 10, 2003 this sequence version replaced gi:24942397. The sequence in this assembly is a combination of BAC based reads and whole genome shortgun sequence of reads assembled using Atlas (http://www.hgsc.com.tmc.edu/projects/rat/). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contigs aceffold'). Within each contigs casffold, individual sequence cording and ontigs casffold and separated by sized gaps filled with Ns to the estimated size. The sequence

may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the feature table. Genome Center

NOTE: Betimated insert size may differ from sequence length (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html). (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html). consists of 1 contigs. Gaps between the contigs are represented as runs of N. The order of the pieces are represented as runs of N. The order of the pieces of the gaps between them are based on estimates that have provided by the submittor. This sequence will be replaced by the finished sequence as soon as it is available and the accession number will be preserved. 1 222330: contig of 222330 bp in length. Assembly program: Atlas 3.0; Consensus quality: 210552 bases at least 040 Consensus quality: 212815 bases at least 030 Consensus quality: 214416 bases at least 020 Estimated insert size: 220819; sum-of-contigs estimation Quality coverage: 7x in Q20 bases; sum-of-contigs estimation Center: Baylor College of Medicine Center code: BCM Web site: http://www.hgsc.bcm.tmc.edu/ Contact: hgsc-help@bcm.tmc.edu --------- project Information Center project name: GBUA Center clone name: CH30-89M22 .222330 (organism="Rattus norvegicus" /mol_type="genomic DNA" /db_xref="taxon:10116" ---- Summary Statistics Location/Qualifiers source FEATURES

/clone="CH230-89M22" 1. .1784
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Gaps DB 2; Length 222330; ö Indels 47; 0; Mismatches Pred. No. 69; 23.9%; Score 30.8; 55.7%; Pred. No. 69 59; Conservative Query Match Best Local Similarity Matches

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GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

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US-10-782-899-1_COPY_1_192 192 1 gctgggggggggggggggggggtga.....tgacccaagaaggatgcttt 192 Title: Perfect score: Sequence:

IDENTITY_NUC Gapop 10.0 , Gapext 1.0 Scoring table:

4708233 seqs, 24227607955 residues Searched:

Total number of hits satisfying chosen parameters:

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Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

GenEmbl:* Database :

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gb ba:* gb htg:* gb or:* gb ov:* gb pa:* gb pa:* t:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description		AE014814 Bifidobac	AX492788 Sequence	AX553955 Sequence	AB072446 Bifidobac	AC096816 Rattus no	AC122956 Rattus no	AL671518 Human DNA	AC101665 Mus muscu	AC140952 Pan trogl	AC092873 Pan trogl	AC098646 Pan trogl		AC149460 Papio anu	AC116068 Rattus no	AC097194 Rattus no	AC087432 Homo sapi	AC020753 Homo sapi	AC018814 Homo sapi
DI	BD144660	AE014814	AX492788	AX553955	AB072446	AC096816	AC122956	AL671518	AC101665	AC140952	AC092873	AC098646	AC151799	AC149460	AC116068	AC097194	AC087432	AC020753	AC018814
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Query Match	100.0	91.2	91.2	91.2	90.2	19.3	19.3	19.0	19.0	18.6	18.6	18.6	18.6	18.2	18.2	18.2	18.1	18.1	18.1
Score	192	175.2	175.2	175.2	173.2	37	37	36.4	36.4	35.8	35.8	35.8	35.8	35	35	35	34.8	34.8	34.8
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<pre>/gene="hup" /gene="hup" /note="Hup; cos family: bacterial nucleoid DNA-binding protein; FFAM_ID: Bac_DNA_binding" /codon start=1 /trans1_table=11 /product="DNA-binding protein Hu" /protein id="AAN25881.1" /protein id="AAN25881.1" /db_xref="GI:23327099" /trans1ation="MAYNKBDLVSKIAQKSALTKAQAEAAVNAFQDVFVEAMKSGEGL KirGLFSABRYKZAAARTGENDIPASYGYRISAGSLLKKAVTE" /db_xref="GI:23327099" /trans1ation="MAYNKBDLVSKIAQKSNLTKAQAEAAVNAFQDVFVEAMKSGEGL KirGLFSABRYKZAAARTGENDIPASYGYRISAGSLLKKAVTE" complement(2181.4742) /gene="BL1799" /gene="BL1799" /note="BL1799" /note="BL1799" /note="BL1799" /rans1_table=11 /trans1_table=11 /product="narrowly conserved hypothetical membrane protein id="AAN25582.1" /db_tref="GI:23327100" /tb_tref="GI:23327</pre>	ALQUYUNWLOFTLPWALVENTRYLINUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	<pre>adenylosuccinate lyase; FFAM_ID: lyase_1"</pre>	<pre>/gens=BLR01 /gens=BLR01 /note="CGG family: permeases of the major facilitator superfamily" /codon start=1 /transT table=11 /transT table=11 /prodein id="AAN25584.1" /protein id="AAN2584.1" /protein id="AAN25584.1" /protein id="AAN25584.1" /protein id="AAN25584.1" /protein id="AAN2584.1" /protein id=</pre>
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1 1 1 2 2 2 2 7	<pre>ABO14814 AE014295 AE014814 AE014295 AE014814 I GI:23327097 Bifidobacterium longum NCC2705 Bifidobacterium longum NCC2705 Bifidobacterium longum NCC2705 Bifidobacteriaeaes Bifidobacterium. 1 (bases 1 to 14216) Schell,M.A., Karmirantzou,M., Snel,B.; Vilanova,D., Berger,B., Pessi,G., Zwahlen,MC., Desiere,F., Bork,P., Delley,M., Pridmore,D. and Arigoni,F. The genome sequence of Bifidobacterium longum reflects its adaptation to the human gastrointestinal tract proc. Natl. Acad. Sci. U.S.A. 99 (22), 14422-14427 (2002) 12381787 2 (bases 1 to 14216) 2 chell,M.A., Karmirantzou,M., Snel,B., Vilanova,D., Berger,B., Pessi,G. Zwahlen,MC., Desiere,F., Bork,P., Delley,M., Pridmore,D. and Arigoni,F.</pre>	Direct Submit Box 44 Box 44	<pre>/db:rete="di:3337098" /cb:rete="di:3337098" /crianslation="MPOLEDSGTRSLHATEPUPSAEMDGFCRIFGVENTGAE revDagQvAWTMCPPIVSRSRSTWTYLANGSRLYLDVGSHPEYATAEARDPREALAQD LAGEHVMKNLALKAQRKLRESYGAHATINPKNNVD926HAATTAERFVDLET ILAGEHVMKNLALKAQRKLRESYGAHATINPKNNVD926HAATTAERFVDEAT DIDSFRRLHUT1GDSRGSWGTWMKLAVTHLVLCALEDAFRHCVPSGFEQYAFADPAA DDDSFRRLHUT1GDSRGSWGSTWMKLAVTHLVLCALEDAFRHCVPSGFEQYAFADPAA ANTTVSRFLDNPALERGAYDALADVUDMAAKCLFDALKRRPDVTFAQMEQLELDYHD TAMGEWSVLDALERGAYDALADVUDMAKKCLFDALKRRRPDVTFAQMEQLELDYHD TAMGELYSSLVARNQMRELTGSDSVGAAKKCLFDALKRRRPDVTFAQMEQLELDYHD TAMGELYSSLVLDAFERELTGSDSVGAAKKCLFDALKRRRPDVTFAQMEQLELDYHD TAMGELYSSLVLDFFEAEFTLGFEQLMEALN" WTHLTTLPRERREALLLDFFEAEFTLGFEQLMEALN" Complement(1754. 2035) /gene="bytnonym: BL1798" /note="bytnonym: BL1798"</pre>
QY Db QY QY QY QY QY QY QY QY C Db C DD DD DEFINITION	ACCESSION VERSION VERSION KEYWORDS SOURCE ORGANISM AUTHORS AUTHORS AUTHORS	TITLE JOURNAL FEATURES BOURCE Gene CDS	dene CD X

<pre>/note="COG family: uncharacterized Bcr" Ouery Match 91.2%; Score 175.2; DB 1; Length 14216; Beet Local Similarity 97.4%; Pred. No. 1.4e-45; Matches 189; Conservative 0; Mismatches 3; Indels 2; Gaps Matches 189; Conservative 0; Mismatches 3; Indels 2; Gaps 1 [[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[</pre>	ACTAAGCAAAAGTGCTTGTCCTCGACCC ACTAAGCAAAAGTGCTTGTCCCCTGACCC ACTAAGCAAAAGTGCTTGTCCCCTGACCC	AX492788 156538 bp DNA linear Sequence 1106 from Patent EP1227152. AX492788.1 GI:23338471 Bifidobacterium longum biovar Longum Bifidobacterium longum biovar Longum Batteria; Actinobacteria; Actinobacteridae; Bifit Bifidobacteriaceae; Bifidobacterium. Bifidobacteriaceae; Bifidobacterium. Bifidobacterian and genome of bifidobacterium Bacteria etrain and genome of bifidobacterium Patent: EP 1227152-A 1106 31-JUL-2002; Patent: EP 1227152-A 1106 31-JUL-2002; Cociete des Produits Neetle S.A. (CH) Location/Qualifiers 1. 156638 1. 156638 1. 156638 1. 156648 Produits Neetle S.A. (CH) 1. 1566518 1. 156648 1. 156648 Produits Neetle S.A. (CH) 1. 1566518 1. 1566518	Best splitted-in 7 more sequencesseq 0001: from 000.001 to 0.49.980 length: 34980-seq 1100: from 300.001 to 0.49.980 length: 34980-seq 1101: from 900.001 to 1.249.980 length: 34980-seq 1103: from 200.001 to 1.249.980 length: 34980-seq 1104: from 200.001 to 1.849.980 length: 34980-seq 1104: from 800.001 to 1.849.980 length: 349980-seq 1106: from 800.001 to 2.149.980 length: 349980-seq 1106: from 91.24; Score 175.2; DB 6; Length 15638; 91.24; Score 175.2; DB 6; Length 15638;	189; Conservative 0 185; Conservative 0 167766666666666666666666666666666 6176-AATACCTTCG666666668AAA 6176-AATACCTTCG6666AAA 6176-AATACCTTCG666AAAA 119 ACATG6667A6TATCATTG4 119 ACATG6667A6TATCATTG4 119 ACATG6667A6TATCATTG4 119 ACATG6667A6TATCATTG4 179 AAGAAGGATG67TT 192
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12005055 2 (bases 1 Kano,Y. Direct Submi Submitted (0 University, Pharmaceutic Kyoto 607841 Tel:81755954	source 1600 /organism="Bifidobacterium longum biovar Longum" /mol_type="genomic DNA" /db_xref="taxon:1679"	<pre>/product="histone-like HU protein HBL" /protein_id="BAB88690.1" /db_xref="c11:1918954" /db_xref="c11:1918954" /db_xref="c11:1918954" /db_xref="c11:1918954" /db_xref="c11:1918954" /db_xref="c11:1018954" /db_xref="c11:1018954" /db_xref="c11:1018954" /db_xref="c11:10184" /db_xref</pre>) <u> </u>	RESULT 6 RESULT 6 AC096816/c 230625 bp DNA linear HTG 10-MAY-2003 LOCUS AC096816 230625 bp DNA linear HTG 10-MAY-2003 DEFINITION Ratus norvegicus clone CH230-171E18, *** SEQUENCING IN PROGRESS ACCESSION AC096816 G 1:30520628 VERSION AC096816 G 1:30520628 KEYWORDS HTG; HTG5 PHASE1; HTGS_DRAFT; HTGS_ENRICHED. ACC96816 G 1:30520628 KEYWORDS Ratus norvegicus (Norway rat) ORGANISM RAtus norvegicus (Norway rat) ORGANISM BRATYOLA; Metazos Chordata; Vertebrata; Buteleostomi; Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae;	<pre>Raftus. Raftus. 1 (bases 1 to 230625) Muzny.D.Marie., Metzker,M.Lee., Abramzon,S., Adams,C., Alder,J., AUTHORS Muzny.D.Marie., Metzker,M.Lee., Abramzon,S., Anguiano,D., Angulebechi,Y., Aoyagi,A., Ayodeji,M., Baca,E., Baden,H., Baldwin,D. Bandaranaike,D., Barber,M., Barnstead,M., Benahmed,F., Biswalo,K., Blair,J., Blankruburg,K., Blyth,P., Brown,M., Biswalo,K., Bluair,J., Blankruburg,K., Blyth,P., Brown,M., Stant,N., Buhay,C., Burch,P., Burch,P., Burch,P., Erown,M., Cardenas,V., Carter,K., Cavazos,I., Ceasar,H., Center,A., Chacko,J., Chavez,D., Chen,G., Chen,R., Chen,Z., Chu,J., Davila,M.L., Davis,C., Davy-Carroll,L., De Anda,C., Dederich,D., Davila,M.L., Davis,C., Davy-Carroll,L., De Anda,C., Dederich,D.,</pre>
Db 141984 AAGAAGGATGCTTT 141971 Db 141984 AAGAAGGATGCTTT 141971 RESULT 4 AX553955 AX553955 156646 bp LOCUS AX553955 DEFINITION Sequence 9 from Patent W002074798. ACCESSION AX553955.1 G1:25897908 VERSION AX553955.1 G1:25897908		longum biovar Longum' jth 2256646 splitted J-seg 3: from 0.300.00 0.01 to 0.949.980~sec 6: from 1.200.001 to .001 to 1.849.980~sec	2.256. ; Gaps	Qy 1 GCTGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGC	17.022 ACALGGGATGGTTT 192 17.9 AAGAAGGATGGTTT 192 141992 AAGAAGGATGGTTT 141979 141992 AAGAAGGATGGTTT 141979 141992 AAGAAGGATGGTTT 141979 141972 AAGAAGGATGGTTT 141979 151072 AAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAG	Σ

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Center clone name: CH230-171E18 Consensus quality: 197146 bases at least Q40 Consensus quality: 202146 bases at least Q30 Consensus quality coverage: 6x in Q20 bases; sum-of-contigs setimation NOTE: Estimated insert size. Q40/G056 Genbank Kraft data.html). NOTE: This is a vorking draft' sequence. It curitently notes thtp://www.hgsc.betwen the contigs are represented as this record will be updated with the finished sequence this root as it is available and the accession number will this record will be updated with the finished sequence this root will be updated with the finished sequence this root of illes post betwen the contigs are unknown. This record will be updated with the finished sequence the preserved. This record of illes of the gaps at unstruct the preserved. This record of illes post betwen the interpth 5017 55044 contig of 23492 bp in length 5017 55044 contig of 23492 bp in length 5017 55044 contig of 1445 bp in length 5017 52044 contig of 15003 bi in length 5018 5118 220144 app of unknown length 520141 22015 220144 app of unknown length 520145 220144 app of	<pre>(moi type="genumic DNM"</pre>
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Direct Submission Direct Submission of Molecular and Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA On Nov 20, 2002 this sequence version replaced gi:23666770. The sequence in this asequencing reads assembled using Atlas and whole genome shortgun sequencing reads assembled using Atlas (http://www.hgsc.bcm.tmc.edu/projects/rat/). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence ontig9 are ordered and oriented, and sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shortgun sequence reads. Both end sequences and whole genome Allen.C. Allen.H. Alsbrooks.S. Amin.A. Anguiano.D. Baldwino.K. Blairz.J. Ayodeji.M. Barnstead.M. Burnstl.K. Owoler. Budden.B. Cascos. Chav.S. Chav.S. Chavs. C. Bary. Cart. Caves. Chen.K. Cavesos. M. Carter.M. Cavesos. M. Carter.M. Cavesos. M. Carter.M. Cavesos. M. Carter.M. Busyla.M.L. Davyla.C. Davyla.C. Cockrell R. Cox. C. Coyle.M. Cree.A. D'Soura.L. Daval.C. Davyla.M. Bernandez.S. Pann.G. Paragen.M. Bean.G. Barnad.M. Surgene.C. Davyla.M. Carter.M. Feast.R. Garta.M. Garta.R. Gener.R. Garta.M. Garta.R. Gener.R. Garta.M. Guntarten.P. Hauland.M. Flago.M. Gartar.M. Garta.M. Guntarten.P. Hauland.M. Havlak.P. Hamilton.C. Hamilton.K. Mand. M. Guntarten.P. Handler.M. Flago.M. Guntarten.M. Guverra.M. Guver Submitted (26-MAY-2002) Human Genome Sequencing Center, Department for Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA 3 (Dases 1 to 246991) Rat Genome Sequencing Consortium. (bases 1 to 246991) Worley,K.C. Direct Submission

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COMMENT

shotgun sequence only contigs will be indicated in the feature

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Query Match Best Local Matches 7	ch 19.1%; Score 37; DB 2; Length 246991; 1 Similarity 54.9%; Pred. No. 1.2; 73; Conservative 0; Mismatches 60; Indels 0; Gaps 0;
õ	29 GACAAGCATAATCTTGATTCGTCTATTTTCCAATACGTGGGGGAAATAGATGTGGAA 88
Db 67	6776 GAAAAACCCATTTATGTCTAAGAGCTCTATGCAGATATCTAACTTCTAAAGGAACATAAA 6717
QY	89 AACCCTTATAAAACGCGGGTTTTCGCAGAAACATGCCGCTAGTACATGATGATGACAACATG 148
Db 67:	6716 AATACTTTTCAAACATGTATTTTTCTTÄGTÄGGÄTGAGGTÄGTÄGTÄCTTCTTTAACCCTAG 6657
Qy 1.	149 GACTAAGCAAAAG 161
Db 66	6656 GACTAGGCAGGG 6644
RESULT 8 AL671518 LOCUS	All671518 67395 bp DNA linear PRI 16-FEB-2002 11 brin common from clone Bb11.21506 on chromosome 6. commlete
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ACCESSION VERSION KEYWORDS	AL671518 AL671518.3 GI:18855253 AL671518.3 GI:18855253

2 [Dases 1 to 28549] 2 [Birren,B., Linton,L., Nusbaum,C., Lander,E., Ali,A., Allen,N., Birren,B., Linton,L., Nusbaum,C., Lander,E., Ali,A., Allen,N., Brown,A., Camarata,J. Campopiano,A., Chang,J., Chazaro,B., Brown,A., Camarata,C., Campopiano,A., Chang,J., Chazaro,B., Choepel,Y., Colangelo,M., Collins,S., Collymore,A., Cook,A., Cooke,P., PartzHulano,K., Dewar,K., Diaz,J.S., Dodge,S., Faro,S., Ferreira,P., Heaford,A., Horton,L., Hulme,W., Tliev,I., Johnson,R., Jones,C., Kamat,A., Karatas,A., Kells,C., LaRocque,K., Lamazares,R., Landers,T., Lehoczky,J., Levine,R., Liu,G., McCarthy,M., McEwan, P., McPheeters,R., Meldrm,J., McCarthy,M., McEwan,P., McPheeters,R., Liu,G., McCarthy,M., McBwan,P., McHens,K., Naylor,J., Nguyen,C., Norbu,C., Netta,R., Phunkhang,P., Pilley,R., Kiley,G., Oliver,J., Pettaran,K., Phunkhang,P., Naylor,J., Nguyen,C., Rayan,S., Severti,M., Rolmell,P., O'Donnell,P., O'Neil,D., Roman,J., Reterson,K., Phunkhang,P., Pinere,N., Pollara,V., Strauss,N., Subraman,A., Talamas,J., Testrae,N., Pollara,V., Viel,R., Yo,A., Wilson,B., Wu,X., Wyaan,D., Ye,M.J., Young,G., Zainoun,J., Zembek,L., Zimmer,A., and Zody,M. Lirect Submission Lirect Submission Submitted (23-NOV-2001) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA Research, 320 Charles Street, Cambridge, MA 02141, USA Birren, B., Nusbaum, C., Lander, B., Abouelleil, A., Allen, N., Anderson, M. Arachchi, H.M., Barna, N., Bastien, V., Bloom, T., Birren, S., Nocka, Cooke, P., Commarta, J., Choepel, Y., Collymore, A., Cooke, P., Comm, B., DeArellano, K., Diaz, J.S., Dodge, S., Dooley, K., Dorru, B., BeArellano, K., Collymore, A., Cooke, P., Corum, B., DeArellano, K., Collymore, A., Cooke, P., Corum, B., Bearellano, K., Collymore, A., Cooke, P., Corum, B., Bearellano, K., Collymore, A., Cooke, P., Corum, B., Bearellano, K., Diaz, J.S., Dodge, S., Dooley, K., Dorru, B., Bearellano, K., Collymor, FitzGeradd, M., Gage, D., Galagan, J., Gardyna, S., Graham, L., Grand-Pierre, N., Hafez, N., Hagopian, D., Hagos, B., Hail, J., Horton, L., Hulme, W., Tilser, N., Machan, C., Macdonald, P., Major, J., Manthews, C., Macthews, C., Nors, C., Lindblad-Toh, K., Liu, X., Lui, A., Mablitt, R., Machean, C., Macdonald, P., Major, J., Manbur, R., Machean, C., Nguyen, C. Nicoll, R., Norbu, C., O'Connor, T., O'Donnell, P., O'Neil, D., Olliver, J., Rethaws, C., Nethukhang, P., Naylor, J., Nguyen, D., Schauer, S., Schupback, R., Seaman, S., Severy, P., Smith, C., Spencer, B., Schupback, K., Seaman, S., Severy, P., Smith, C., Nassiliev, H., Venkataraman, V., S., Viel, R., Voy, A., Wilson, B., Wu, X., Nyasni, D., Young, G. Zainoun, J., Zembek, L., Zimmer, A. and Zody, M., Direct, Submission. Mus musculus chromosome 17 clone RP23-55C11 map 17, *** SEQUENCING Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 285493) Web site: http://www-seq.wi.mit.edu Contact: sequence submissions@genome.wi.mit.edu ------ Project Information ACIO1665.4 GI:45680671 HTG; HTGS PHASE1; HTGS FULLTOP; HTGS ACTIVEFIN. Mus musculus (house mouse) Mus musculus Birren, B., Nusbaum, C. and Lander, E. Mus musculus chromosome 17, clone RP23-55C11 Unpublished IN PROGRESS ***, 10 unordered pieces. Center code: WIBR AC101665 DEFINITION SOURCE ORGANI SM TITLE JOURNAL AUTHORS TITLE JOURNAL JOURNAL ACCESSION VERSION KEYWORDS REFERENCE AUTHORS REFERENCE AUTHORS REFERENCE TITLE COMMENT Liracety.htm Interect Submission Direct Submission Submitted (16-FBB-2002) Wellcome Trust Sanger Institute, Hinxton, cambridgeshire, CB10 15A, UK. B-mail enquiries: humquery@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk On Feb 21, 2002 this sequence version replaced gi:18491488. During sequence assembly data is compared from overlapping clones. Where differences are found in the sequence submission corresponding to the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above. Tegions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= chemistry or covered by high quality data (i.e., phred plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest. The following absrevitions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest. The following absrevitions and repeats; Information on the WoRWPEP in the feature table with their source databases: Em, EMBL; Swi, SWISSFROT; Tr:, TREMBL; Wp:, WORMPEP; Information on the WoRWPEP in the feature table with their source databases: Em, FMBL; Swi, SWISSFROT; Tr:, TREMBL; Wp:, Constructed by the Sanger center Chromosome 6 Mapping drabase can be found at http://www.sanger.ac.uk/FOF/Chro fromosome 6; constructed by the Sanger center Chromosome 6 Mapping from; Puttp://www.chori.org/bacpac/home.htm thtp://www.chori.org/bacpac/home.htm twoormant.mtps://mation farmation farmation for the structed thttp://www.chori.org/bacpac/home.htm 15983 ČAAAATAATTTCCAATATATATAAATACCCTTAATTGGAAAGATCTCATATCCCA 16042 16043 TATTATAAAGTGGTTCTAGCAACTATACAĆTATAAAATĆCTTTGGGAAGATATGAATGTG 16102 ô HTG 24-MAR-2004 IMPORTANT: This sequence is not the entire insert of clone RP11-315C6 It may be shorter because we sequence overlapping sections only once, except for a short overlap. The true left end of clone RP1-71D21 is at 65396 in this sequence. The true right end of clone RP11-403119 is at 2000 in this TATAAAACGCGGGTTTTTCGCAGAAACATGCGCTAGTATCATTGATGACAACATGGACTAA 154 35 CATAATCTTGTCTGATTCGTCTTTTCAATACCTTCGGGGAAATAGATGTGAAAACCCT 94 Eukaryoča; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 67395) Gaps ; 0 19.0%; Score 36.4; DB 9; Length 67395; ilarity 54.5%; Pred. No. 1.8; Conservative 0; Mismatches 61; Indels 0; linear DNA 1. .67395 ∕organism="Homo sapiens" DNA" 285493 bp /clone="RP11-315C6" /clone_lib="RPCI-11.2" /mol_type="genomic DN /db_xref="taxon:9606" Location/Qualifiers /chromosome="6" 16103 GCTAAGCCTCATGT 16116 155 GCAAAGTGCTTGT 168 sapiens (human) Query Match Best Local Similarity Matches 73; Conserval Homo sapiens sequence. racey, A AC101665 Ното 95 0 source ORGANISM REFERENCE AUTHORS TITLE JOURNAL RESULT 9 AC101665 LOCUS FEATURES COMMENT ORIGIN SOURCE q ዋ à å 8 8

1_copy_1_192.rge Page 8	REFERENCE 2 (bases 1 to 170350) AUTHORS Sulston,J.E. and Wilson,R. TITLE Sequencing of Pan troglodytes JUTHORS Sulston,J.E. and Wilson,R. JUTHORS Sulston,J.E. and (2001) REFERENCE 3 (bases 1 to 170350) AUTHORS Waterston,R. JUTHORS Direct Submission JUTHORS Direct Submission JUTHORS University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA WISSON,R. Direct Submission JUTHORS Wissouri 63108, USA AUTHORS Wissour, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA AUTHORS Wisson,R. Direct Submission JUTHORS Wissouri 63108, USA AUTHORS Wissouri 63108, USA AUTHORS Wissouri 63108, USA AUTHORS Wissouri 63108, USA AUTHORS Wissouri 63108, USA COMMENT Center: Washington University Genome Sequencing Center Center Code: WUGSC Web site: http://genome.wustl.edu	Center project name: C_PT022112 	this clone was provided by Dr. We Washington University, St. Louis about the map position of this sec has been constructed by Chung-Li blood cells obtained from a male ', Yerkes #C0471; birthdate: 6-6-1 rmation can be obtained from XesGe	<pre>(ntcp://www.resgen.com/ of right de ouig and de worker de http://www.bacpac.chori.org. NEIGHBORING SEQUENCE INFORMATION: This sequence is the entire insert of the clone. FEATURES Location/Qualifiers source 11703califiers /organism="Pen troglodytes" /organism="Pen troglodytes" /db_rref="taxon:9598"</pre>	(clone="Re43-2112" /clone="Re43-22112" /clone="Re43-22112" /clone_lib="RPCI-43" ORIGIN 18.6%; Score 35.8; DB 9; Length 170350; Best Local Similarity 63.2%; Pred. No. 2.9; DB 9; Length 170350; Matches 55; Conservative 0; Mismatches 32; Indels 0; Gaps 0; Matches 55; Conservative 0; Mismatches 32; Indels 0; Gaps 0; D 144944 CCAGGGCTGGGTTGATAATCTTGTCTGATTTTTAATTTTCAATAACTTTGGG 74 DD 144944 CCAGGGCTGGGTTGATAATTTTTTAATTTTCTCTATGTTTAAAACATTTTAT 145003 Qy 75 GAAATGGTGGGAAAGCCTTATAAAA 101 Qy 75 GAAATGGTGGAAAGCCTTATAAAA 101
Mon Aug 8 15:40:17 2005 us-10-782-899-1	project name: Li clone name: 55_C of lo contige: T of lo contige: T data working of lo contige: T data their or data their data th	178642 178941: CONTENT OF 17.00 bp 178642 178941: CONTENT OF 25973 bp in 204715 204714: Gap of 100 bp 204715 204714: Gap of 100 bp 240583 246582: Gap of 100 bp 240583 246467: Gap of 100 bp 24658 250304: CONTENT OF 5685 bp in 24658 250304: CONTENT OF 5885 bp in 24658 250304: CONTENT OF 5885 bp in 24658 250304: CONTENT OF 5985 bp in 256305 250404: Gap of 100 bp 2550405 255044: Gap of 100 bp 2550405 255044: Gap of 100 bp 2550405 255044: Gap of 100 bp 10. 285493: CONTENT OF 5985 bp in 1. 285493: CONTENT OF 5985 bp in 1. 2859493: CONTENT OF 5985 bp in 1. 2850405 250044: Gap of 100 bp 2550405 2503044: Gap of 100 bp 1. 2850405 2503044: Gap of 100 bp 2550405 2503044: Gap of 100 bp 266383 250304: CONTENT OF 5985 bp in 1. 2850405 2503044: Gap of 100 bp 1. 2850405 2503044: Gap of 100 bp 266383 250304: CONTENT OF 5985 bp in 1. 2850405 2503044: Gap of 100 bp 266383 250304: CONTENT OF 5985 bp in 266383 250304: Gap of 100 bp 266383 2500000000000000000000000000000000000		Db 194920 GGGATTCTGGTGGCGCTTCACATCACTGCCTGATGATAAGTGCCGGTATTGCTGC 194990 Qy 73 GGGAAATAGATGGTGAAAACCCTTATAAAACGCGGGGGTTTTCGCAGAAACATGCGCTAGTAT 132 Qy 13 1	RESULT 10 AC140952 AC140952 170350 bp DNA linear PRI 26-SEP-2003 LOCUS Pan troglodytes BAC clone RP43-22112 from 7, complete sequence. DEFINITION Pan troglodytes BAC clone RP43-22112 from 7, complete sequence. ACCESSION AC140952.1 G1:28850254 ACC40952.1 G1:28850254 Free Pan troglodytes (chimpanzee) SOURE Pan troglodytes (chimpanzee) Pan troglodytes (chimpanzee) CRGANISM Pan troglodytes (chimpanzee) Pan troglodytes (chimpanzee) ACCANISM Pan troglodytes (chimpanzee) Pan troglodytes (chimpanzee) Pan troglodytes (chimpanzee) ACCANISM Pan troglodytes (chimpanzee) ACCANISM Pan troglodytes (chimpanzee) ACCANISM Pan troglodytes (chimpanzee) ACTHORS Pan troglodytes PAC clone RP43-22112 AUTHORS Pan. AUTHORS Pan troglodytes BAC clone RP43-22112 AUTHORS Pan troglodytes BAC clone RP43-22112 AUTHOR (ppublished (2001)

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 NOTE: This is a 'working draft' sequence. It currently NOTE: This is a 'working draft' sequence. It currently consists of 4 contigs. Gaps between the contigs are represented as runs of N. The order of the pieces is believed to be correct as given, however the sizes of the gaps between them are based on estimates that have provided by the submittor. This sequence will be replaced by the finished sequence as soon as it is available and by the finished sequence as soon as it is available and the accession number will be preserved. 82248 83347; contig of 1413 bp in length 82348 83760; contig of 1413 bp in length 82349; gagodi of unknown length 82341; gagodi of unknown length 82341; gagodi of unknown length 	<pre>* 168250 168349; gap of unknown length * 168250 171239; contig of 2890 bp in length. * 168350 171239; contig of 2890 bp in length. FEATURES 1. 171239 source 0.reganiam="Pan troglodytes" /mol type="genomic DNA" /mol type="genomic DNA" /db zref="taxon:959" /db zref="taxon:950" /db zref="taxon:950" /</pre>	JenBan SenBan SenBan Siter	Query Match18.6%; Score 35.8; DB 2; Length 171239;Best Local Similarity 63.2%; Pred. No. 2.9;32; Indels 0; Gaps 0;Matches 55; Conservative 0; Mismatches 32; Indels 0; Gaps 0;Qy15 CCATGAAGGGTTAGACAAGGATAATCTTGTCGTCGATTTTCAATACCTTCGGG 74Qy15 CCATGAAGGGTTAGACAAGGATAATCTTGTCGTCGATTTTTCAATACCTTCGGG 74Qy145797 CCAGGGCTGGCATAGATCATATTTTTAATTTTCATGGTTAAAGATTTAT 145856Qy75 GAAATAGGTGGCTACATAAAAAAA 101Qy75 GAAATAGGTGGTACTAAAAAAA 101Db14587 ATAGGCATTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	RESULT 12 AC098646 AC098646 171391 bp DNA linear HTG 13-JUN-2002 LOCUS AC098646 AC0916446 171391 bp DNA linear HTG 13-JUN-2002 DEFINITION Pan troglodytes clone RP43-4466, WORKING DRAFT SEQUENCE, 4 ordered ACC98646 C GT:21397305 AC098646.2 GT:21397305 HTG; HTGS_PHASE2; HTGS_DRAFT. ACC98646.2 GT:21397305 HTG; HTGS_PHASE2; HTGS_DRAFT. AC098646.2 GT:21397305 SURCE Pan troglodytes (chimpanzee) AC098646.2 GT:21397305 KETWORDS HTG; HTGS_PHASE2; HTGS_DRAFT. Pan troglodytes (chimpanzee) ORGANISM Pan troglodytes (chimpanzee) ACOMISM Pan troglodytes (chimpanzee) Antrodiction (chimpanzee) Adveryota; Butheria; Primates; Catarthini; Hominidae, Pan. Adveryota; Muthorelia; Primates; Catarthini; Hominidae, Pan. Adveryota; Mandonelia; Avele,K., Beckstrom-Sternberg,S.M., Benjamin,B., Blakesley,R.W., Bouffard,G.G., Breen,K., Brinkley,C., Benjamin,B., Dietrich,N.L., Granite,S., Guan,X., Gupta,J.,
<pre>Db 145004 ATAAGCATTTTGAAAACACTTAAAAA 145030 RESULT 11 RESULT 11 AC092873 AC092873 171239 bp DNA 1inear HTG 12-JUN-2002 DEPINITION Pan troglodytes clone RP43-22112, WORKING DRAFT SEQUENCE, 4 ordered DEPINITION Pan troglodytes clone RP43-22112, WORKING DRAFT SEQUENCE, 4 ordered ACCESSION AC092873.3 GI:21392490 ACCESSION AC092873.3 GI:21392490 KEYWORDS HTG; HTGS PHASE2; HTGS DRAFT SOURCE Pan troglodytes (chimpanzee) ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; </pre>	<pre>Mamalia; Eucheria; Primates; Catarrhini; Hominidae; Fan. Maralia; Eucheria; Primates; Catarrhini; Hominidae; Fan. AUTHORS Akhter,N. Anconellis,A., Ayele,K., Beckstrom-Sternberg,S.M., Brooks,S., Dietrich,N.L., Granite,S., Guan,X., Gupta,J., Haghighi,P., Hansen,N.L., Granite,S., Guan,X., Karlins,E., Laric,P., Lee-Lin,SQ., Legaspi,R., Maduro,Q.L., Maduro,V.B., Margulies,E.H., Massiello,C., Maskerian,S.D., Margulies,E.H., McDowell,J., Paquirigan,C., Pearson,R., Portnoy,M.E., Prasad,A., Schneler,M.G., Stantripp,S., Thomas,J.W., Thomas,P.J., Touchman,J.W., Tsurgeon,C., Vogt,J.L., walker,M.A., Wetherby,K.D., Waggins,L., Tsurgeon,C., Vogt,J.L., walker,M.A.,</pre>	TITLE NISC Comparative Sequencing Initiative JOURNAL Unpublished REFERENCE 2 (bases 1 to 171239) AUTHORS Green, E.D. TITLE Direct Submission JOURNAL Grovemont Circle, Gaithersburg, MD 20877, USA Grovemont Circle, Gaithersburg, MD 20877, USA REFERENCE 3 (bases 1 to 171239) REPERSINCE 3 (bases 1 to 171239) RUTHORS Direct Submission TITLE Direct Submission TITLE Direct Submission TITLE Comment Circle, Gaithersburg, MD 20877, USA AUTHORS Direct Submission TITLE Submitted (12-UUT-2002) NIH Intramural Sequencing Center, 8717 JOURNAL Submitted (12-UUT-2002) NIH Intramural Sequencing Center, 8717 Convent Circle, Gaithersburg, MD 20877, USA TITLE Submitted (12-UUT-2002) NIH Intramural Sequencing Center Circle, Gaithersburg, MD 20877, USA COMMENT On Jun 12, 2002 this sequence version replaced gi:15799603. COMMENT Conter orde: NISC Conter code: NISC	The sequence data in this record represents an 'enhanced' Center project name: ani Center clone name: 022112 The sequence data in this record represents an 'enhanced' version of a Phase 2 submission. Specifically, the indicated order and orientation of each sequence contig has been established using one or more of the following: read-pair data from individual subclones, overlaps with neighboring clones, alignment with available reference sequence (e.g., human), and/or confirmation by PCR testing. In addition, the sequence assembly is based on at least 8% average	coverage in Q20 bases and has been reviewed to rule out gross misassemblies, the low-quality ends of sequence contrigs have been trimmed away, and each base is associated with a phrap-derived quality score.

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Haghighi, P., Hansen, N., Ho, S.-L., Idol, J.R., Karlins, E., Laric, P., Lee-Lin, S.-O., Legaspi, R., Maduro, Q.L., Maduro, V.B., Margulies, E.H., Masiello, C., Maskeri, B., Martrian, S.D., McCloskey, J.C., McDowell, J., Paguirigan, C., Pearson, R., Portnoy, M.E., Prasad, A., Schueler, M.G., Stantripop, S., Thomas, J.W., Thomas, P.J., Touchman, J.W., Tsurgeon, C., Vogt, J.L., Walker, M.A., Wetherby, K.D., Wiggins, L., Young, A., Zhang, L.-H. and Green, E.D. Unpublished NOTE: This is a 'working draft' sequence. It currently consists of 4 contrigs. Gaps between the contrigs are represented as runs of N. The order of the pieces is believed to be correct as given, however the sizes of the gaps between them are based on estimates that have provided by the submittor.
This sequence as soon as it is available and by the finished sequence as soon as it is available and the accession number will be replaced.
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The accession number will be preperved.
The accession number will be protect as 12,570 bp in length 21,571 55729; contig of 21570 bp in length 57731 57729; gap of unknown length 105821 105920; gap of unknown length 105821 105920; gap of unknown length 105921 105920; gap of unknown length 105920; gap of unknown le Green.p.v. Direct Submission Submitted (13-JUN-2002) NIH Intramural Sequencing Center, 8717 Grovemont Circle, Gaithersburg, MD 20877, USA On Jun 13, 2002 this sequence version replaced gi:16506408. Direct Submission Submitted (27-OCT-2001) NIH Intramural Sequencing Center, 8717 Grovenut Circle, Gaithersburg, MD 20877, USA 3 (bases I to 171391) Web site: http://www.nisc.nih.gov Contact: nisc_zoo@nhgri.nih.gov ------- Project Information Center project name: anj Center clone name: 044G06 2 (bases 1 to 171391) Green, E.D. Center code: NISC .171391 -Green, E.D source TITLE JOURNAL REFERENCE AUTHORS TITLE JOURNAL REFERENCE AUTHORS TITLE JOURNAL FEATURES COMMENT

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<pre>SOURCE Papio anubis (olive baboon) ORGANISM Papio anubis ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae; Cercopithecinae; Papio. REFERENCE 1 (bases 1 to 191622) AUTHORS Antonellis,A., Ayele,K., Benjamin,B., Blakesley,R.W.,</pre>	<pre>Bouffard.G.G., Brinkley.C., Brooks.S., ChuG.J. Coleman.B., Coleman,H., Daki,N., Engle,J., Guan,X., Gupta,J., Haghighi,P., Han,J., Hangen,N., Ho.SL., Hu,P., Hurle,B., Idol,J.R., Jones,C., Karlins,E., Kim,H., Kwong,P., Laric,P., Larson,S., Lee-Lin,SQ., Legaspi,R., Maskeri,B., Maduro,V.B., Margulies,E.H., Masiello,C., Maskeri,B., McDowell,J., Mullikin,J.C., Paguirigan,C., Park,M., Portnoy,M.E., Prasad,A., Puri,O., Reddix-Dugue,N., Thomas,J.W., Thomas, P.J., Tsipouri,V., Yogt,J.L., Wetherby,K.D., Thomas,J.W., Thomas, P.J., Tsipouri,V., Yogt,J.L., Wetherby,K.D.,</pre>		AUTHORS Greent S.J. TITLE Direct Submission JOURNAL Submitted (08-JUL-2004) NIH Intramural Sequencing Center, 8717 JOURNAL Submitted (08-JUL-2004) NIH Intramural Sequencing Center, 8717 COWMENT On JUL 8, 2004 this sequence version replaced gi:48057351. COMMENT On JUL 8, 2004 this sequence version replaced gi:48057351. COMMENT On JUL 8, 2004 this sequence version replaced gi:48057351. COMMENT On JUL 8, 2004 this sequencing Center Center: NIH Intramural Sequencing Center Center: NIH Intramural Sequencing Center Center code: NISC Web site: http://www.nisc.nih.gov Contact: nisc.zoo@hfgri.nih.gov Center forolect Information Center clone name: 41E01	The sequence data in this record represents an 'enhanced' version of a phase 2 submission. Specifically, the indicated order and orientation of each sequence contig has been established using one or more of the following: read-pair data from individual subclones, overlaps with neighboring clones, alignment with available reference sequence (e.g., human), and/or contirmation by PCR testing. In addition, the sequence assembly is based on at least BX average coverage in Q20 bases and has been reviewed to rule out gross misassemblies, the low-quality ends of sequence contigs have been trimmed away, and each base is associated with a Phrap-derived quality score.	Sequencing vector: plasmid; n/a; 100% of reads Chemistry: Dye-terminator Big Dye; 100% of reads Assembly program: Phrap; version 0.990319 Consensus quality: 180653 bases at least Q40 Consensus quality: 180918 bases at least Q30 Consensus quality: 181167 bases at least Q30 Insert size: 181322; bar-of-contigs Quality coverage: 10.99x in Q20 bases; sum-of-contigs Quality coverage: 10.91x in Q20 bases; sum-of-contigs Quality coverage: 10.91x in Q20 bases; sum-of-contigs	 consistent of a controps warp between the order of the pieces are represented as runs of N. The order of the pieces is believed to be correct as given, however the sizes of the gaps between them are based on estimates that have provided by the submittor. This sequence will be replaced by the finished sequence as soon as it is available and the accession number will be preserved. the accession number will be preserved.
Sequencing vector: plasmid; 100% Chemistry: Dye-primer ET; 0% of reads Chemistry: Dye-terminator Big Dye; 100% of reads Assembly program: Pirzap; Version 0.990319 Consensus quality: 186628 bases at least 040 Consensus quality: 187038 bases at least 020 Consensus quality: 187038 bases at least 020	 NOTE: This is a "working draft sequence. It currently NOTE: This is a "working draft sequence. It currently consists of 6 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary (app between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as on as it is available and the accession number will 	25061 3117 3117 3217 3217 25061 102774 102774	8727 8737	<pre>misc_feature 3217. :24560 misc_feature 7. :24560 clone_end:T7 misc_feature 7102773 misc_feature 7102773 /note="assembly_name:Contig21 /note="assembly_name:Contig21 clone_end:SP6 misc_feature 102874. 18769 misc_feature 102874. 18769 misc_feature 187370188467_name:Contig2" 0RIGIN</pre>	Query Match18.6%Score 35.8DB 2Length 188467Best Local Similarity63.2%Pred. No. 2.99Matches55Conservative0Mismatches32Qy15CCATGAAGTGGCTTGACAGGCATAATTGTTGTCGTGGTGTGTGT	RESULT 14 AC149460/c AC149460 181622 bp DNA linear HTG 08-JUL-2004 LOCUS AC149460 anubis clone RP41-441E1, WORKING DRAFT SEQUENCE, 4 ordered DEFINITION Papio anubis clone RP41-441E1, WORKING DRAFT SEQUENCE, 4 ordered ACCESSION AC149460 A

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COMMENT

Egen.A. Becotco,W. Bugene.C. Fvene.C.A. Falls.T. Fan.G. Ferendee.S. Franky.W. Fagag.N. Gorbes.L. Foster.M. Descer.M. Freestork. Schlad.A. GartyR. Gortes.L. Foster.M. Bearliero.K. Banlicon.K. Bollans.J. Hand.S. Hume.J. Kanly.K. Banlicon.K. Bollans.J. Bollans.S. Homes.J. King.L. Market.B. S. Hilly.K. Kanly.K. Karket.B. Bollans.F. Mil. J. Liku.J. Liku.J. Liku.J. Liku.J. Liku.J. Liku.J. Liku.J. Kanly.K. Market.B. M. Malmod.M. Malmod.M. Mattond.M. M. Mattond.M. Mattond.

Center project name: GMWC Center clone name: CH230-66D24 ------ Summary Statistics

NOTE: Estimated insert size may differ from sequence length (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html). NOTE: This is a 'working draft' sequence. It currently consists of 3 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved. ö 9334 GCCTTTAAGGGTGTAAGCACACCACCACGCTGCTTATTGTGTACAGGCTTCAT 9393 9394 reaaaheraacheedaracaraaahreedeedeerririreeacacaeraheaarreeree 9453 74 GGAAATAGATGTGAAAAACCCTTATAAAACGCGGGGTTTTCGCAGAAACATGCGCTAGTATC 133 14 GCCATGAAGTGGCTTGACAAGCATAATCTTGTCTGATTCGTCTAATACCTTCGG 73 Consensus quality: 226512 bases at least Q40 Consensus quality: 227588 bases at least Q30 Consensus quality: 227588 bases at least Q30 Estimated insert 282638 bases at least Q20 Bstimated insert 282634; sum-of-contigs estimation Quality coverage: 10x in Q20 bases; sum-of-contigs estimation Gaps ; 0 Query Match18.2%;Score 35;DB 2;Length 231844;Best Local Similarity55.3%;Pred: No. 5.4;Matches68;Conservative0;Matches68;Conservative0;Mismatches55;Indels0 229543: contig of 229543 bp in length
 229543: gap of unknown length
 230670: contig of 1027 bp in length
 230770: gap of unknown length
 231844: contig of 1074 bp in length.
 Location/Qualifiers 231844
 /organism="Rattus norvegicus" /moltype="genomic DNA" /db Tref="taxon:10116"
 /clone="CH230-66D24" 1. .2343 /note="wgs_end_extension clone_end:T7" complement(2941. .3750) /note="clone_boundary clone_end:T7 /note="wgs_end_extension
clone_end:Sp6" end sequence:BH264906" 182235. 225520 /note="clone boundary clone end:Sp6 site:EcoRI Assembly program: Atlas 3.0; Search completed: August 6, 2005, 00:35:05 Job time : 1522.26 secs sequence:BH264909" . .229543 site:EcoRI end_sec 227512. 229544 229644 230671 230771 9454 ATT 9456 **134 ATT 136** misc_feature misc_feature misc_feature misc_feature source FEATURES ORIGIN å 8 đ δ ą 6 .

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29.8 15.5 115829 13 ABD33448 29.6 15.4 2000 8 ADA71889 29.6 15.4 260027 11 ACN44046 29.4 15.3 487 9 ACH25462	29.4 15.3 768 10 29.4 15.3 768 10 29.4 15.3 2000 10 29.4 15.3 2000 10 29.4 15.3 2414 4 29.4 15.3 2537 4	31 29.4 15.3 2719 4 ABL06226 32 29.4 15.3 3612 13 ADT47758 33 29.4 15.3 3618 4 ABL03916 34 29.2 15.2 836 4 AAK83773 35 29.2 15.2 836 4 AAK83773 36 29.2 15.2 1758 6 ABK87389 37 29.2 15.2 2190 8 ABZ79829	29.2 15.2 2253 8 ABZ79826 29.2 15.2 2274 8 ABZ79830 29.2 15.2 2214 8 ABZ79830 29.2 15.2 2313 8 ABZ79828 29.2 15.2 2337 8 ABZ79827 29.2 15.2 2406 12 ADO42025 29.2 15.2 2406 12 ADO42025 29.2 15.2 2406 12 ADO42025 29.2 15.2 2406 12 ADO42025	ALIGNMENTS	222	OS BIIIGODACCETIUM LONGUM. XX FH Key Location/Qualifiers FT CDS 193474 FT /*tag= a FT /product= "Cancer gene therapy protein" XX	PN JP2002097144-A. XX PD 02-APR-2002	XX XX PF 21-SEP-2001; 200JP-00290187. XX PR 21-SEP-2000; 2000JP-00287688. XX PA (AMAN/) AMANO A. PA (FUJI/) FUJIMORI M.	<pre>XX WFI; 2002-448201/48. DR P-PSDB; AAU96807. DR P-PSDB; AAU96807. FT Solid cancer therapy with anaerobic bacteria of Bifidobacterium sp. by PT tumor tissue specific delivery of a DNA encoding for an antitumor active PT protein or its precursor. FT Claim 10; Page 16; 21pp; Japanese. XX The invention describes a method of treating a solid cancer with CC anaerobic bacteria by site specific delivery of DNA encoding an CC antitumour active protein or its precursor. This sequence encodes a</pre>
GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.	OM nucleic - nucleic search, using sw model Run on: August 5, 2005, 21:17:03 ; Search time 306.841 Seconds (without alignments) 3704.166 Million cell updates/sec	Title: US-10-782-899-1_COPY_1_192 Perfect score: 192 Sequence: 1 gctgggggggggggggggggggggggggggggggggg	Searched: 4390206 seqs, 2959870667 residues Total number of hits satisfying chosen parameters: 8780412 Minimum DB seq length: 0 Maximum DB seq length: 200000000	Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries	Database : N.Geneseq_16Dec04:* 1: geneseqn1990s:* 2: geneseqn2000s:* 4: geneseqn2001as:* 5: geneseqn2001bs:* 6: geneseqn2001bs:* 7: geneseqn2001bs:* 9: geneseqn2001bs:* 10: geneseqn2003bs:* 11: geneseqn2003ds:* 13: geneseqn2004bs:* 13: geneseqn2004bs:*	Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution. SUMMARIES	ery tch Lei	1 192 100.0 600 6 ABK52324 Abk52324 Abk52324 Abk52324 Abk52324 Abk52324 Abk52324 Abk52324 Abk5324 Abg81850 Abs727556 Abs277556 Abs277556 Abs227556 Abs2275	H 00 H 00

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ខ	cancer gene therapy associated protein
v S	Sequence 600 BP; 132 A; 165 C; 161 G; 142 T; 0 U; 0 Other;
Que Bes Mat	Query Match 100.0%; Score 192; DB 6; Length 600; Best Local Similarity 100.0%; Pred. No. 3.1e-57; Matches 192; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
су Ч	1 GCTGGGGGGGGGGGGGGCCATGAGCTTGACATGATCTTGTCTGATTCGTCTATTT 60
장 움 •	61 TCAATACCTTGGGGGAAATAGATGTGTGAAAACCCTTATAAAAGGGGGGTTTTGGCAGAAAC 120
YO da	121 ATGCGCTAGTATCATTGATGACAACATGGACTAAGCAAAAGTGCTTGTCCCCTGACCCAA 180
S S	181 GAAGGATGCTTT 192 181 GAAGGATGCTTT 192
RESU ABQ8 ID XX	RESULT 2 ABQB1850/c ID ABQ81850 standard; DNA; 156638 BP. XX
AX 8	281850; VOV 2002
X A	13-NOV-2002 (11150 Enuly) Bifidobacterium longum NCC2705 related nucleotide sequence SEQ ID:1106.
X M M M M	Bifidobacterium longum NCC2705; Bifidobacterium; bacterial; antidiarrheic; antibacterial; inhibitor of Salmonella; detection; identification; lactic acid bacterium; diarrhoea; pathogenic bacteria; rotavirus; food composition; pharmaceutical composition; gene; ds.
XSS	Bifidobacterium longum. Synthetic.
XX	BP1227152-A1.
S S S	31-JUL-2002.
P X 2	30-JAN-2001; 2001EP-00102050. 2073N-2001; 2001ED-00102050
XX) SOC PROD NESTLE SA.
XH	WPI; 2002-668397/72.
2222	Novel polynucleotide comprising Bifidobacterium genome sequence useful as a probe or primer for detecting and/or identifying Bifidobacterium longum in a biological sample.
XX SA XX	Disclosure; SEQ ID NO 1106; 80pp; English.
1 88	The present invention describes a polynucleotide (I) comprising a earners of a Bifidobacterium genome selected from the nucleotide
388	sequences given in AB081842 and AB081843, or a sequence exhibiting at least 90% identity or which hybridises with the sequences given in
ខ្លួនទ	ABQ01842 and ABQ01843. Also described is a polynucleotide (II) encoding a fusion protein, comprising a sequence selected from 1097 sequences given in AbbG5588 to AbbG6554 in frame to a molynucleotide encoding a
388	In APPOSISE U MERCOUNT ANY CONTRACT IN A MARK OF A MARKAUNT CONTRACT OF A MARKAUNT
888	a probe) is useful for the detection and/or identification of Bifidobacterium longum in a biological sample. A carrier containing the lactic acid bacterium Bifidobacterium longum NCC2705 (CNCM I-2618) can be

used for preventing and/or treating diarrhoea brought about by pathogenic bacteria and/or rotewirus. The carrier is a food composition selected from milk, yogurt, curd, cheese, fermented milks, milk based fermented products, ice-creams, fermented cereal based products, milk based products, ice-creams, fermented cereal based based based based or a supplement, wet oral supplement, dry tube feeding or wet tube feeding. (1) is useful in DNA arrays or chips to carry out analysis of the supplement, wet oral supplemented a ferther diffice bifidobacterium related nucleotide sequences given in the Sequence listing from the present invention but not mentioned further within the specification. N.B. The sequence data for this patent is not reprisented in the printed by the European Patent Office supplied by the European Patent Office Sequence 15638 BP; 32098 A; 46491 C; 46415 G; 31634 T; 0 U; 0 Other;	Query Match 91.2%; Score 175.2; DB 6; Length 156638; Best Local Similarity 97.4%; Pred: No. 3.1e-50; Matches 189; Conservative 0; Mismatches 3; Indels 2; Gaps 1;	1 GCTGGGGGGGGGGGGGCGTGAAGGCTTGACAAGGATAATCTTGTCTGATTGGTCTATTT 60 111111111111111111111111111111111111	61 TCAATACCTTCGCGGAAATAGATGTGAAAAACCCTTATAAAACGCGGGGTTTTCGCAGAA 118 1<		179 141984	RESULT 3 AAA64140/c ID AAA64140 standard; DNA; 50000 BP. XX AC AAA64140;	20-DEC-2000 Wiiclectide	Beta-tubulin antigen; i chronic ear disease; au	Homo sapiens. W0200050593-A1.		25-FEB-2000; 2000MO-US004795.	25-FEB-1999; 99US-0121549P.		WPI ;	New beta-tubulin antigen in the membranous structure of the inner ear, r reactive with antibodies of patients with Meniere's disease, for diagnosing Meniere's disease and distinguishing this disease from other r autoimmune ear diseases.	t 5 Claim 3: Page 74-97; 115pp; English.
88888888888888888888888888888888888888		S g	δ a	δ g	& g	ACTAR	ΕX		XSXM	XG	XH	XHX	a X 5	238	XTTTT	XX

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CC cDNA sequences have been obtained, the full 5' UTR is rarely included. 5' CC ESTS are derived from mRNAS with intact 5' ends and can therefore be used CC ESTS are derived from mRNAS with intact 5' ends and can therefore be used CC to obtain full length cDNAs and genomic DNAs. 5' ESTS are also used in CC diagnostic, forensic, gene therapy and chromosome mapping procedures. CC They are used to obtain upstream regulatory sequences and to design CC expression and secretion vectors SX Sequence 278 BP; 82 A, 44 C; 43 G; 108 T; 0 U; 1 Other; CC expression and secretion vectors CC expressin and secretion vectors CC expression and secretion	Db 99 TCATGTGGATTGTTTTCTGTCTTTAGGTATTAAAATGCTGTATTCAATAATTTKGGGGAC 158 Qy 78 ATAGATGTGAAAACCCTTATAAAACGCGGGGTTTTCGCGGAAAACATGGGTAGTATCATTG 137 Qy 78 ATAGATGTGAAAACCCTTATAAAACGGGGGGTTTTCGCGGAAAACATGGGGTAGTATCATTG 137 Qy 18 ATAGATGTGAAAACCCTTATAAAACGGGGGGTTTTCGCGGAAAACATGGGGTAGTATCATTG 137 Dp 159 ATATATGTCATTATCACATATATACGAGTGTGTGTGTGGGGTGACATTCCAAAAGTGCACTG 218	QY 138 ATGACAACATGGACTAAGCAAAAGTGCTTGT 168 19 219 CTGAGTAGGGGTAATGTATTTGTATTTGTATTTTT 249	RESULT 5 ABL21958/c ID ABL21958 standard; DNA; 2717 BP.	ABL21958;	DT 26-MAK-2002 (LITSC ENCLY) XX DE Drosophila melanogaster genomic polynucleotide SEQ ID NO 17347.	XX XW Drosophila; developmental biology; cell signalling; insecticide; XW pharmaceutical; gene; ds.	XX OS Drosophila melanogaster.	XX FN WO200171042-A2. XX	27-SEP-2001.	23-MAR-2001; 23-MAR-2000;	 Venter JC,	WPI; 20	XX PT New isolated nucleic acid detection reagent for detecting 1000 or more PT genes from Drosophila and for elucidating cell signaling and cell-cell			cell-cell interactions in higher eu insecticides, therapeutics and pharn discloses genomic DNA sequences (ABI discloses denomic DNA sequences (ABI	CC sequences (Abuluator Abulator) and the should proceed process where of the CC ABB72072). The sequence data for this patent did not form part of the CC printed specification, but was obtained in electronic format directly CC from WIPO at ftp.wipo.int/pub/published_pct_sequences XX
XX The present sequence encodes a beta-tubulin antigen. The protein is an CC antigen of the membranous structure of the inner ear protein, and is CC antigen of the membranous structure of the inner ear protein, and is CC meniers's disease is a chronic ear disease with unknown etiology. Serum CC meniers's disease is a chronic ear disease contain autoantibodies against from patients suffering from this disease contain autoantibodies against cc a 30 kDa cochlear protein antigen. The disease is believed to be an autoimmune disease. The beta-tubulin antigen is useful as a target cubstance in diagnosing or detecting Meniere's disease and in distinguishing this disease from other autoimmune ear diseases Sequence 5000 BP; 17281 A; 9480 C; 8791 G; 14448 T; 0 U; 0 Other; Ouery Match	Conservative 0 TTGTCTGATTGATTGTCTATTTT 1111111111111111111111111111111	QY 102 CGCGGGGTTTTTCGCAGAAACATGCGCTAGTAATCATTGATGAACAAAGGGACTAAGCAAAAG 161 D 26316 CCTATTTTTCGGCATAAATGCTTGCCATGATTAAAATAGAAATCAGCATGAT 26257	OY 162 TGCTTGTCCCTGACCCAA 180 DD 26256 TTCTTACTGGTGGACCAA 26238	SULT 4 C27526	ID AAC27526 standard; CDNA; 278 BP. XX AC AAC27526;	06-OCT-2000 (first entry)	Human secreted protein 5' EST, SEQ ID NO: 31601.	KW Human; 5' EST; expressed sequence tag; secreted protein; CDNA isolation; KW gene therapy; chromosome mapping; ss.	os Homo sapiens. XX	PN BP1033401-A2. XX DN 66.989-2000	XX . PR 26-FEB-1999; 99US-0122487P. . XX	PA (GEST) GENSET. XX	<pre>PI Dumas Milne Edwards J, Duclert A, Giordano J; . XX DR WPI; 2000-500381/45.</pre>	New nucleic obtaining cl	diagnostic, totensic, gene cherapy and chromosome mapping from Claim 1; SEQ ID NO 31601; 71pp + Sequence Listing; English.	The present sequence is one of a large number of 5' ESTs of mRNAs encoding secreted proteins. No ORF has yet been con identified within the present sequence. The 5' ESTs were present sequence.	CC total human RNAs or polyA+ RNAs derived from 30 different tissues. EST CC sequences usually correspond mainly to the 3' untranslated region (UTR) CC of the mRNA because they are often obtained from oligo-dT primed CDNA CC libraries. Such ESTs are not well suited for isolating CDNA sequences CC derived from the 5' ends of mRNAs and even in those cases where longer

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WP Fragment Name Begin End WP AB067195_0 110000 110000 WP AB067195_1 100001 210000 WP AB067195_2 200001 310000 WP AB067195_3 300001 410000 WP AB067195_4 400001 410000 WP AB067195_3 300001 410000 WP AB067195_4 400001 415000 WP AB067195_4 16.7%; Score 32; DB 6; Length 110000; Best Local Similarity 50.7%; Pred: No. 13; 75; Indels 0; Matches 77; Conservative 0; Mismatches 75; Indels 0; QY 35 CATAATCTTGATTACTTCATATACTTCGGGAAATAGATGCTGAAAAACCT 91 Db 29177 CATGAAACTCGGACACGCCATCCATTCATTCATTATTCGGGAAAGGCCATTTGAAAAACCT 29118	0y 95 THYARAACGGGGGTTTTTCGCGGGAACTTGATTGATTGATGGAACTTGATGATTGAT
<pre>SQ Sequence 2717 BP; 835 A; 555 C; 503 G; 824 T; 0 U; 0 Other; Query Match 16.9%; Score 32.4; DB 4; Length 2717; Best Local Similarity 56.6%; Pred: No. 1.8; Matches 60; Conservative 0; Mismatches 46; Indels 0; Gaps 0; OY 39 ATCTTGTCTGTTTTCATATACTTCGGGGGAAATAGATGGTGAAAACCCTTATA 98</pre>	<pre>RESULT 6 ABG7217 5 ABG7217 5 ABG7217 5 ABG7214 5 AB</pre>

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 PR 08-NOV-2000; 2000US-0246610P. PR 08-NOV-2000; 2000US-0246611P. PR 17-NOV-2000; 2000US-0246613P. PR 17-NOV-2000; 2000US-0242208P. PR 17-NOV-2000; 2000US-0249208P. PR 17-NOV-2000; 2000US-0249210P. PR 17-NOV-2000; 2000US-0249211P. PR 17-NOV-2000; 2000US-0249214P. 	17-NOV-2000 17-NOV-2000 17-NOV-2000 17-NOV-2000 17-NOV-2000 17-NOV-2000 17-NOV-2000 01-DBC-2000 01-DBC-2000 05-DBC-2000 05-DBC-2000 05-DBC-2000 05-DBC-2000 06-DBC-2000 08-DBC-2000 09-DBC-2000 09-DBC-2000 09-DBC-2000 09-DBC-2000 01-DBC-2000 00-000 00-00000000000000000000		Aat Mat
14-NUG-2000; 2000US-0225758P. 18-NUG-2000; 2000US-0225759P. 18-NUG-2000; 2000US-02265159P. 22-NUG-2000; 2000US-0226681P. 22-NUG-2000; 2000US-0226868P. 22-NUG-2000; 2000US-0229688P. 30-NUG-2000; 2000US-0229287P. 01-SEP-2000; 2000US-0229344P. 01-SEP-2000; 2000US-0229344P. 01-SEP-2000; 2000US-0229344P. 01-SEP-2000; 2000US-0229344P. 01-SEP-2000; 2000US-0229545P. 01-SEP-2000; 2000US-0229545P. 01-SEP-2000; 2000US-0229545P. 01-SEP-2000; 2000US-0229545P. 01-SEP-2000; 2000US-0229545P. 01-SEP-2000; 2000US-0229545P. 05-SEP-2000; 2000US-0229545P. 05-SE	B - 55F - 2000; 200005 - 0231244P B - 55F - 2000; 200005 - 0231244P B - 55F - 2000; 200005 - 0231414P B - 55F - 2000; 200005 - 0232080P B - 55F - 2000; 200005 - 0232080P A - 55F - 2000; 200005 - 0232080P A - 55F - 2000; 200005 - 0232099P A - 55F - 2000; 200005 - 0232094P A - 55F - 2000; 200005 - 0232063P A - 55F - 2000; 200005 - 0232063P A - 55F - 2000; 200005 - 0233063P A - 55F - 2000; 200005 - 0233063P A - 55F - 2000; 200005 - 0233063P A - 55F - 2000; 200005 - 023400P A - 55F - 2000; 200005 - 023409P A - 55F - 2000; 200005 - 0234998P A - 55F - 2000; 200005 - 0234998P	BP-2000; 2000US-0235336P. EP-2000; 2000US-0236356P. EP-2000; 2000US-0236356P. EP-2000; 2000US-023656P. EP-2000; 2000US-023656P. EP-2000; 2000US-023656P. CT-2000; 2000US-023703P. CT-2000; 2000US-0237038P. CT-2000; 2000US-0237034P. CT-2000; 2000US-0233935F. CT-2000; 2000US-0233935F. CT-2000; 2000US-023935F. CT-2000; 2000US-024128P. CT-2000; 2000US-024178F. CT-2000; 2000US-024178F. CT-2000; 2000US-024178F. CT-2000; 2000US-024178F.	CT-2000) 200005-0244617P OY-2000) 200005-0244617P OY-2000) 200005-0246476P OY-2000) 200005-0246476P OY-2000) 200005-0246476P OY-2000) 200005-0246477P OY-2000) 200005-0246574P OY-2000) 200005-0246524P OY-2000) 200005-0246524P OY-2000) 200005-0246524P OY-2000) 200005-0246527P OY-2000) 200005-0246527P OY-2000) 200005-0246527P OY-2000) 200005-0246527P OY-2000) 200005-0246527P OY-2000) 200005-0246527P OY-2000) 200005-0246527P OY-2000) 200005-0246527P

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<pre>1703 CACCCATGATGA 17 9 181/c AAL06181 standard; D AAL06181 standard; D 17-JJN 2000; 2000US- 11-JJU-2000; 2000US- 11-AUG-2000; 2000US- 2000S- 2000S- 2000S- 2000S</pre>
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000US - 0231243P 000US - 0231244P 000US - 0231413P 000US - 0231414F 000US - 0232080P 000US - 0232080P 000US - 023230397P 000US - 02323938P 000US - 0232398P 000US - 0232398P 000US - 0232398P 000US - 0232400P	2000US -0233064P 2000US -0233064P 2000US -0233064P 2000US -0234997P 2000US -0234997P 2000US -0234997P 2000US -0234994P 2000US -0234994P 2000US -0235364P 2000US -0235364P 2000US -0235364P 2000US -0235364P 2000US -0235364P 2000US -0235364P 2000US -0235364P 2000US -0235364P 2000US -023537037P 2000US -02363799 2000US -02363799 2000US -02341785P 2000US -02341785P 2000US -02341785P 2000US -02341785P 2000US -02341785P 2000US -02341785P 2000US -02341785P 2000US -02341785P 2000US -02346475P 2000US -0246524P 2000US -0246524P 2000US -0246524P 2000US -0246524P 2000US -0246524P 2000US -0246513P 2000US -0246514P 2000US -0246514P 2	000005-0249211F 000005-0249212F 000005-0249213F 000005-0249215F 000005-0249216F 000005-0249216F 00005-0249218F 00005-0249218F 00005-0249218F 00005-0249218F 00005-0249244F
8 08-5EP-2000; 8 08-5EP-2000; 8 08-5EP-2000; 8 08-5EP-2000; 8 08-5EP-2000; 8 08-5EP-2000; 8 12-5EP-2000; 8 14-5EP-2000; 8 14-5	PR 14-587 PR 21-587 PR 21-587 PR 21-587 PR 21-587 PR 21-587 PR 21-587 PR 25-587 PR 25-587 PR 25-587 PR 25-587 PR 25-587 PR 27-587 PR 29-587 PR 22-567 PR 22-567 PR 22-667 PR	R 17-NOV-2000 R

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	PR 19-MAY-2000 PR 07-UUN-2000 PR 28-UUN-2000 PR 07-UUL-2000 PR 07-UUL-2000	1400 100 100	нннн		PR 14-AUG-2000 PR 14-AUG-2000 PD 14 ATC-2000		4 M C		29		PR 08-5EP-2000 PR 08-5EP-2000 PR 08-5EP-2000 PR 12-5EP-2000 PR 14-5EP-2000		PR 14-SEP-2000; PR 14-SEP-2000; PR 14-SEP-2000:			PR 26-SEP-2000 PR 27-SEP-2000 PR 27-SEP-2000		
17-NOV-2000; 2000US-0242655 17-NOV-2000; 2000US-02492695 17-NOV-2000; 2000US-02492995 17-NOV-2000; 2000US-02493095 01-DEC-2000; 2000US-0250160P 01-DEC-2000; 2000US-0250391P.		06-DEC-2000; 2000US-0251990P. 08-DEC-2000; 2000US-0251990P. 11-DEC-2000; 2000US-0254097P. 05-JAN-2001; 2001US-0259678P.	(HUMA-) HUMAN GENOME SCI INC. Rogen CA, Barash SC, Ruben SM;	WPI; 2001-465570/50. Isolated nucleic acid molecule encoding a reproductive system antigen is used in preventing, tracting or ameliorating a medical condition.	Disclosure; SEQ ID NO 8869; 1297pp + Sequence Listing; English.	The present invention provides the protein and coding sequences of a number of human reproductive system related antigens. These can be used in the prevention and treatment of reproductive system disorders, including cancer. The present sequence is a genomic sequence encoding a protein of the invention	Sequence 18272 BP; 3601 A; 5274 C; 5400 G; 3997 T; 0 U; 0 Other;	Query Match 16.2%; Score 31.2; DB 4; Length 18272; Best Local Similarity 60.7%; Pred. No. 11; Matches 51; Conservative 0; Mismatches 33; Indels 0; Gaps	71 CGGGGGAAATAGATGTGAAAAACCCTTATAAAACGCGGGGTTTTCGCAGAAACATGCGCTAGT 130 1708 1	131 ATCATTGATGACAACAAGGACTAA 154	3ULT 10 198746/c ABL98746	ABL98746;	21-JUN-2002 (first entry)	Human testicular antigen encoding DNA fragment SEQ ID NO: 3398.	XX KW Human; testicular antigen; testes; cancer; metastasis; immune disorder; KW reproductive system disorder; urinary system disorder; gene therapy; KW cardiovascular disorder; respiratory disorder; neurological disorder; KW gastrointestinal disease; infection; cytostatic; gene; ds.		WO200155317-A2.	

2000US-0226681P. 2000US-0226868P. 2000US-0227182P.

2000US-0227009F 2000US-0228924F 2000US-0228924F 2000US-0229343F 2000US-0229343F 2000US-0229345F 2000US-0229345F 2000US-0229345F

200005-0230437P 200005-0230437P 200005-0230434P 200005-0231444P 200005-0231444P 200005-0231444P 200005-0231444P 200005-0231414P 200005-0232399P 200005-0232399P 200005-0232399P 200005-0232399P 200005-0232399P 200005-023249P 200005-023494P 200005-023495P 200005-023656P 200005-023656P 200005-0236556P 200005-0236556P

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DCT2001 20008-03216805 CCT-2001 20008-032	<pre>bisclosure; SEQ ID NO 3398; 766pp; English. The present invention provides the protein and coding sequences of 973 the present invention provides the protein and coding sequences of 973 thuman testicular antigens, and fragments of their genomic sequences. The sequences can be used in the treatment of cardiovascular, urinary system, reproductive system, immune, respiratory, neurological and astrointestinal disorders, infections, and particularly cancer, especially testicular cancers. The present sequence is a DNA encoding a protein fragment of the invention Sequence 18272 BP; 3601 A; 5274 C; 5400 G; 3997 T; 0 U; 0 Other; Query Match 16.2%; Score 31.2; DB 4; Length 18272; Best Local Similarity 60.7%; Pred. No. 11; Matches 51; Conservative 0; Mismatches 33; Indels 0; Gaps 0; Matches 51; Conservative 0; Mismatches 33; Indels 0; Gaps 0; discutation and antiches 24 C; Sub 4; Length 18272; Best Local Similarity 60.7%; Pred. No. 11; Matches 51; Conservative 0; Mismatches 33; Indels 0; Gaps 0; discutation and antiches 24 C; Sub 4; Length 18272; Discutation and antiches 24; Conservative 0; Mismatches 33; Indels 0; Gaps 0; discutation and antiches 24; Conservative 0; Mismatches 33; Indels 0; Gaps 0; discutation and antiches 24; Conservative 0; Mismatches 33; Indels 0; Gaps 0; discutation and antiches 24; Conservative 0; Mismatches 33; Indels 0; Gaps 0; discutation and antiches 0; Mismatches 33; Indels 0; Gaps 0; discutation and antiches 15; Conservative 0; Mismatches 33; Indels 0; Gaps 0; discutation and antiches 16; Conservative 0; Mismatches 24; Conservative 0; M</pre>	71 CGC 17088 CGA 131 ATC 17028 AAC 17028 AAC 17028 AAC 17028 AAC 17028 AAC 17028 AAC 17028 AAC 17028 AAC ACN50973 5ta ACN50973 5ta ACN50073 5ta ACN50073 5ta ACN50073 5ta ACN50073 5ta ACN50073 5ta	Cotton androeclum tissue EST Cione 10: LIBJA28-002-01-ND-F9, Cotton; plant; EST; expressed sequence tag; transgenic plant; genetic mapping; molecular tag; molecular genetic mapping; seed germination; plant g Gossypium hirsutum. US2004123340-A1. 24-JUN-2004. 12-DEC-2001; 2001US-00021323. 12-DEC-2001; 2001US-00021323. 12-DEC-2001; 2001US-00021323. 14-DEC-2000; 2000US-0255619F. (ETNC/) DEIXMAN J. (BEIK/) DEIXMAN J. (DEIK/) DEIXMAN J. (DEIK/) DEIXMAN J. (ETNC/) TIBGLER T. Deikman J, Feng PCC, Fincher KL, Ziegler TE; WPI; 2004-479808/45. Deikman J, Feng PCC, Fincher KL, Ziegler TE; WPI; 2004-479808/45. NPI; 2004-479808/45. The invention relates to 17880 cotton expressed sequence tag genes associated with plant growth, quality or yield, and as tages to map genes. Claim 1; SEQ ID NO 5754; 34pp; English. Claim 1; SEQ ID NO 5754; 34pp; English.
2000US-0236802P. 2000US-0237038P. 2000US-0237038P. 2000US-0237038P. 2000US-0237038P. 2000US-0237038P. 2000US-0241787P. 2000US-0241787P. 2000US-0241826P. 2000US-0241826P. 2000US-0241826P. 2000US-0244677P. 2000US-0244677P. 2000US-0244677P. 2000US-0244677P. 2000US-0244677P. 2000US-0244677P. 2000US-0244677P. 2000US-0246528P. 2000US-0246528P. 2000US-0246528P. 2000US-0246528P. 2000US-0246528P. 2000US-0249218P. 2000US-02492	Sox cc		usefu EX 87 87 87 87 87 87 87 87 87 87 87 87 87
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GLAZEBROOK J.

C invention, and to transforme aboved by must of an under a construct comprising a nucleic acid of the invention. The cotton BSTs are useful as molecular tags to isolate genetic regions, to isolate genes, to map conserve to determine gene family. The nucleic acid construct genes, to determine gene family. The nucleic acid molecules may be used for isolating a variety of agronomically significant genes associated with plant growth, quality yield, and could also serve as links in metabolic and catabolic pathways. The nucleic acid molecules may be associated germination. The ESTs additionally enable the acquisition of genes and catabolic pathways. The nucleic acid molecules are associated germination. The ESTs additionally enable the acquisition of promoters and cis-regulatory elements which will be useful to express and also permits the acquisition of molecular markers useful in breeding schemes, genetic and molecular mapping, and in cloning of agronomically schemes, genetic and molecular mapping, and in cloning of agronomically schemes, genetic and molecular mapping, and in cloning of agronomically schemes, genetic and molecular mapping, and in cloning of agronomically schemes, genetic and molecular mapping, and in cloning of agronomically content sequence or quantity of a protein by tissue printing. The present sequence represents a specifically claimed EST isolated from a cotton variety Nucotton33B androecium tissue cortin the printed sequence data for this patent did not form part of the printed sequence data for this patent did not form part of the printed sequence data for this patent did not form part of the printed sequence data for this patent did not form part of the printed secuence of the presente of the of a protein by tissue printed by the sequence data for this patent did not form part of the printed by the secuence of the presente of the printed by the printed by the secuence of the printed in electronic format printed by the printed by the secuence data for this patent of the printed by the print ö soybeán, alfalfa, sunflower, canola, cótton; peánut; tobacco; sugar beet; maize; barley; sorghum; rice; wheat; crop plant; insecticide reesistance; stress tolerance; salt tolerance; cold tolerance; drought tolerance; plant nutrition; apical dominance; dwarfism; early flowering; antiviral; 76 AAATAGATGTGTGAAAACCCCTTATAAAACGCGGGGTTTTTCGCAGAAACATGCGCTAGTATCAT 135 Gaps specification, but was obtained in electronic format directly from th patent office at seqdata.uspto.gov/sequence.html?DocID=US20040123340 proteins or their fragments encoded by nucleic acid molecules of the ss; transcription; plant genome augmentation; cereal; ;0 Length 466; Sequence 466 BP; 138 A; 105 C; 81 G; 142 T; 0 U; 0 Other; 39; Indels Score 30.6; DB 13; Pred. No. 3.6; 0; Mismatches 39; 136 TGATGACAACATGGACTAAGCAAAAGTGCTTGT 168 87 TGATCATACCCGGGAGGAACCAAGAGCCCTTGT 119 ADJ44041 standard; cDNA; 549 BP 26-SEP-2002; 2002US-00260238. 26-SEP-2001; 2001US-0325277P. 26-SEP-2001; 2001US-0325448P. 04-APR-2002; 2002US-0370620P. 15.9%; 58.1%; Query Match Best Local Similarity 58.1., Best Local Similarity 58.1., Strange (first entry) MOUGHAMER T BUDWORTH P. BRIGGS S P. COOPER B. Plant cDNA #5041. US2004016025-A1. gene; 06-MAY-2004 22-JAN-2004 antifungal Eukaryota. ADJ44041; (MOUG/) 1 (BRIG/) 1 (COOP/) BUDW/) Plant; U RESULT 12 ADJ44041, \$ <u>д</u> đ 8 g

The interious relates to plant nucleot be sequences for an unconsective sect, leaf- and/or stem-, panicle-, root or pollen-specific or -preferential cor constitutive transcription of an operatively linked nucleic acid segment. The invention also relates to a method for augmenting a plant genome and a method of identifying a gene, where its expression is caltered in the seed, leaf, team, panicle, pollen, root or is constitutive in a plant cell. The plant is a careal, e.g. soybean, alfalfa, sunflower, canola, cotton, peanut, tobacco or sugar beet, preferably maize, barley, sorghum, rice or wheat. The polynucleotides and the polypeptides they encode are useful for manipulating crop plants to alter or improve phenotypic characteristics, to produce large quantifies of oil or proteins, to incur resistance to insecticides, viruses of ting' and to incur stress tolerance (e.g. salt, cold or drought) to ensure the plants early flowering or altered metabolic pathways. This sequence represents a plant nucleic acid of the printed specification but was obtained in ö 107 176 New rice promoter, useful for manipulating crop plants to alter or improve phenotypic characteristics, e.g. produce large quantities of oil or proteins, resistance to insecticides, virus or fungi, stress tolerance or high nutritional value. 108 TTTTCGCAGAAACATGCGCTAGTATCATTGATGACAACATGGACTAAGCAAAAGTGCTTG 167 175 Argaccarcadaradeceaceacadarrecrridericadaarrecaccircaarareccrride 116 electronic format directly from USPTO at segdata.uspto.gov/sequence.html. 48 GATTCGTCTATTTCAATACCTTCGGGGAAATAGATGTGAAAAACCCTTATAAAACGCGGG 235 GAATCATTTGAGTTCAAGACTGCTGAAGAAAAGTTATCGAAGGTCTTGACCAAGCAGTG invention relates to plant nucleotide sequences that direct seed-Gaps с С ö Glazebrook DB 12; Length 549; Sequence 549 BP; 136 A; 143 C; 88 G; 177 T; 0 U; 5 Other; 64; Indels), Moughamer T, Briggs SP, Cooper B, Glaz Katagiri F, Kreps J, Provart N, Ricke D, 3.9; 0; Mismatches Example 13; SEQ ID NO 5041; 230pp; English Score 30.6; Pred. No. 3. ch 15.9%; 1 Similarity 51.9%; 69; Conservative (168 TCCCCTGACCCAA 180 TCCACTGAATCAA 103 WPI; 2004-190374/18. GOFF S A. KATAGIRI F. Query Match Best Local Similarity KREPS J. PROVART N. RICKE D. ZHU T. Budworth P, 115 Goff SA, (KREP/) (PROV/) (RICK/) (ZHUT/) (GOFF/) (KATA/) Matches The 6 a 8 g 8 g

RESULT 13 ABV51855

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BP. ABV51855 standard; cDNA; 583 £

ABV51855;

17-SEP-2002 (first entry)

Human prostate expression marker cDNA 51846.

Human; prostate cancer; cytostatic; carcinogen; pharmacodyanamic marker; pharmacogenomic marker; gene; ss.

Homo sapiens

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<pre>17-MAY-2001. 09-NOV-2000; 2000WO-US030782. 09-NOV-1999; 99US-0164258P. (GLAX) GLAXO GROUP LTD. Kimmerly WJ; WPI; 2001-316495/33. WPI; 2001-316495/33. WPI; 2001-316495/33. WPI; 2001-316495/33. WPI; 2001-316495/33. Nucleic acids encoding polypeptides from Staphylococcus epidermidis, useful for vaccinating against infections, e.g. endocarditis. Claim 8; Page 195; 2188pp; English. AMH52304 to AMH53970 represent nucleic acids (1) encoding polypeptides</pre>	<pre>(II), given in AABSJV0 represent mouter, a ductury propresent and (II) can have antibacterial activity and therefore can be used in vaccination. The mucleic acids (I) way be used to produce the S. epidermidis polypeptides (II) via the production of vectors containing them which are used to produce hosts cells which express the polypeptides. The polypeptides (II) (add/or nucleic acids) may then be used to vaccinate subjects and to raise antibodies against the bacteri The polypeptides may also be used to assay for other inhibitors of the activity and therefore identify compounds that may be used for the treatment of S. epidermidis infections, e.g. endocarditis. AMBS3971 to AMHS5090 represent specifically claimed S. epidermidis genomic DNA polymorleotide sequences from the present invention. AMHS5091 to AMHS represent oligonucleotide sequences and primers which are used in the sequence listing of the present invention. N.B. The present invention sequence listing of the present invention. N.B. The present invention in the disclosure for SEQ ID NO:4455 to 4472, no sequences are gi in the disclosure for SEQ ID NO:4455 to 4472, no sequences are given for SEQ ID NO:4455 to 4464 Sequence 1569 BP; 616 A; 186 C; 274 G; 493 T; 0 U; 0 Other; Best Local Similarity 57.3%; Pred, NO: 7.2; Best Local Similarity 57.3%; Pred, NO: 7.2;</pre>	QY 49 ATTCGTCTATTTCAATACCTTCGGGGAAATAGATGGTGGAAACGCGGGGT 108 Db 87 ATATGAAATAGAACAAAATAATGGGGGATCGATATCTCTCACTGCTTATAAAACGAGGGGT 146 Db 87 ATATGAAATATGAACAAAATAATGGGCGATCCATATCTCTCACTGCTTATAAAACTAATGT 146 0y 109 TTTCGCAGAAAAATGGGCTAGTTGATGGACAA 144 0y 147 TAACGCGGATAGTTGATGATGAAA 182 0b 147 TAACGCGGATATTTGATGGTTGATGAAAA 182	RESULT 15 AAH54121 ID AAH54121 standard; DNA; 3204 BP. XX AC AAH54121; XX DT 03-SEP-2001 (first entry) XX S epidermidis genomic polynucleotide sequence SEQ ID NO:3485. XX Staphylococcus epidermidis SR1 strain; infection; diagnosis; vaccination; XX endocarditis; ds. XX Staphylococcus epidermidis. XX W0200134809-A2. XX
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09-NOV-2000; 2000WO-US030782.

99US-0164258P. 6661-VON-60

(GLAX) GLAXO GROUP LTD

Kimmerly WJ;

WPI; 2001-316495/33.

Nucleic acids encoding polypeptides from Staphylococcus epidermidis, useful for vaccinating against infections, e.g. endocarditis.

Claim 8; Page 1055-1056; 2188pp; English

AM152304 to AM153970 represent nucleic acids (I) encoding polypeptides (II), given in AAG81454 to AAG83120, from Staphylococcus epidermidis. (I) and (II) can have antibacterial activity and therefore can be used in vaccination. The nucleic acids (I) may be used to produce the S. c epidermidis polypeptides (II) via the production of vectors containing them which are used to produce hosts cells which express the polypeptides. The polypeptides (II) via the production of vectors containing the polypeptides and to raise antibodies against the bacteria. The polypeptides may also be used to assay for other inhibitors of their treatment of S. epidermidis infections, e.g. endocarditis. AM15371 to AM155090 represent lentify compounds that may be used for the treatment of S. epidermidis infections, e.g. epidermidis genomic DNA coplyncleotide sequences from the present invention. AM155091 to AM155093 represent oligonucleotide sequences and primers which are used in the exemplification of the present invention. AM15091 to AM155093 represent oligonucleotide sequences and primers which are used in the sequence listing of the present invention. AM15091 to AM155093 represent oligonucleotide sequences and primers which are used in the exemplification of the present invention. N.B. The present invention specifically claims all the polynucleotide sequences given in the listing only goes up to SEQ ID N0:4465 to 4472, no sequences are present in the disclosure for SEQ ID N0:4465 to 4472, no sequences are present

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Sequence 3204 BP; 1249 A; 411 C; 554 G; 990 T; 0 U; 0 Other;

ö 49 ATTCGTCTATTTTCAATACCTTCGGGGAAATAGATGTGTGAAAACCCCTTATAAAACGCGGGGT 108 542 ATATGAATATGAACAAAATAATGAGGGATCCATATCTCTCACTGTTATAAAACTAATGT 601 0; Gaps Query Match15.8%;Score 30.4;DB 4;Length 3204;Best Local Similarity57.3%;Pred. No. 9.8;Matches55;Conservative0;Mismatches41;Indels0;Mismatches41;Indels0; đ 6

109 TTTCGCAGAAACATGCGCTAGTATCATTGATGACAA 144 δ

602 TAACGCGGATATATTTGATAGTTTGATAATGAAAA 637 ዳ

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<pre>D. US20020054865 INFORMATION: NT: FUJIMORI, Mi NT: TANIGUCHI, NT: AMANO TUD</pre>	Sequei Sequei	16-391/ 1Ce l,	A-1 Applica	ion US/	0981	6391A	
ENERAL INFORMATION: APPLICANT: FUJIMORI, Mi APPLICANT: TANIGUCHI, ADPLICANT: AMANO JUD	Patent		JS200201	054865A1			
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APPLICANT: YAZWA, Kazuyuki APPLICANT: YAZWA, Kazuyuki APPLICANT: KANO, Yasunobu APPLICANT: SASAL, Tashyuki APPLICANT: SASAL, Tashyuki APPLICANT: SASAL, Tashyuki TITLE OF INVENTION: Anaerobic bacterium as a drug for cancer gene therapy FILE REFERENCE: 2001-WWC/01736 FILE REFERENCE: 2001-WC/01736 CURRENT FILING DATE: 2001-09-21 REIOR APPLICATION NUMBER: JP 00/287688 REIOR FILING DATE: 2000-09-21 NUMBER OF SEQ ID NOS: 3 SEQ ID NO 1 LENGTH: 600 TYPE: DNA ORGANISM: Bifidobacterium longum FEATURE:

Query Match 100.0%; Score 192; DB 9; Length 600; Best Local Similarity 100.0%; Pred. No. 3.7e-54; ; NAME/KEY: CDS ; LOCATION: (193)..(471) US-09-816-391A-1

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<pre>Sequence 1, Application US/10470565 Publication No. U520040126870A1 GENERAL INFORMATION: APPLICANT: Societe des Produits Nestle S.A. TITLE OF INVENTION: NCC2705 - the genome of a Bifidobacterium FILE REFRENCE: 80290/WO CURRENT APPLICATION NUMBER: US/10/470,565 CURRENT APPLICATION NUMBER: US/10/470,565 CURRENT APPLICATION NUMBER: EP 01102050.0 PRIOR APPLICATION NUMBER: EP 01102050.0 PRIOR FILING DATE: 2001-01-30 NUMBER OF SEQ ID NOS: 2 SOFTWARE: PatentIn version 3.1 SOFTWARE: PatentIn version 3.1 LENGTH: 2256646 TYPE: DNO 1 CURANISM: Bifidobacterium longum US-10-470-565-1</pre>	Query Match 91.2%; Score 175.2; DB 19; Length 2256646; Best Local Similarity 97.4%; Pred. No. 9.2e-47; Matches 189; Conservative 0; Mismatches 3; Indels 2; Gaps 1; Qy 1 GCTGGGGGGGCGATGAAGTGGCTTGACAAGCATAATCTTGTCTGATTCGTCTATTT 60 Qy 1 GCTGGGGGGGCGATGAAGTGGCTTGACAAGCATAATCTTGTCTGATTCGTCTATTT 60 Dy 2242172 GCTGGGGGGGGCAATGAAGTGGGCTTGAAGCATAAATCTTGTCTGATTCGTCTATTT 60 Dy 61 TCAATACCTTGGGGGGGAAATGGATGAAGCATTAAAAGGCGGGTTTTGGTCGATTT 7 Qy 61 TCAATACCTTGGGGGGAAATGGATGAAGCATTAAAAGGCGGGTTTTGGTCGAAA 118 Dy 2242112 TCA-AATACCTTGGGGGGAAATGGATGAAGCATTAAAAGGCGGGTTTTGGTGGAAA 118 Qy 61 TCAATACCTTGGGGGGAAATGGATGAAGCCTTATAAAAGGCGGGTTTTGGTCGAGAAA 118 Dy 2242112 TCA-AATACCTTGATGACAACATGGACTAAGGCAGGAATTGATCGTGGGGGGTTTTTGGCGGGGGGAAATGGATGAAAGCCTTATAAAAGGGCGGGTTTTTGGGGGGGG	RESULT 4 US-10-425-115-60228/c US-10-425-115-60228/c Publication No. US20040214272A1 FUBLICANT: La Rosa, Thomas J. APPLICANT: La Rosa, Thomas J. APPLICANT: La Rosa, Thomas J. APPLICANT: Kovalic, David K. APPLICANT: Cao, Yongwei APPLICANT: Cao, Yongwei TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With	FILE REFERENCE: 38-21(53222)B CURRENT PAPLICATION NUMBER: US/10/425,115 CURRENT FILING DATE: 2003-04-28 NUMBER OF SEQ ID NOS: 369326 SEQ ID NO 60228 LENGTH: 425 TYPE: DNA ORGANISM: Zea mays FEATURE: OTHER INFORMATION: Clone ID: MRT4577_15492C.1 US-10-425-115-60228	Query Match 18.0%; Score 34.6; DB 20; Length 425; Best Local Similarity 51.6%; Pred. No. 0.47; Matches 79; Conservative 0; Mismatches 74; Indels 0; Gaps 0;	QY 16 CATGAAGGGCTTGACAAGCATAATCTTGTCTGGTTGTTTTTCAATACCTTGGGG 75 	0y 76 AAATAGATGTGAAAACGTTATAAAACGGGGGTTTTGGCAGAAACATGGCGTAGTATCAT 135 0y 1 1 1 1 1 1 1 127 AATGACGAATTAATACATTTGAAATGCTATTTACATAATAGCACTGCTAGACT 68 12 AATGACGCAATTAATACATTTGAAATGCCTATTTACATAATGCACTGCTAGACT 68
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-899-1_copy_1_192.rnpb Page 3	<pre>FPLICATION NUMBR: US 60/156,358 FPLICATION NUMBR: US 60/156,358 FPLICATION NUMBR: US 60/146,002 FPLICATION NUMBR: US 60/146,002 FPLICATION NUMBR: US 60/146,002 FPLICATION NUMBR: US 60/146,002 FPLICATE: PARSIAN: HUMAN SECTION 01 1733, 2010 10 FPLICATE: PARSIAN: HUMAN US-10-027-632-167810 FPLICATE: 01 FPLICATE: 0</pre>	
Mon Aug 8 15:40:18 2005	QY136 TCATCACATCGGATAAGCGAAAGTCCTTGT 169DD67 TACTCGCAACAATAGCTAAACGGAAAGTCGTTAAACGGAAGGGTGGT 35RESULT 567 TACTCGCCAACAATAGCTAAACGGAAGGGGTGGT 35RESULT 5US-10-007-632-167810/cUS-10-007-632-167810/cUS-10027632Sequence 167810/cUS-10027632Sequence 167810/cUS-10027632Sequence 167810/cSequence 167810/cSequence 167810/cUS-10027632Sequence 167810/cSequence 167810/cSequence 167810/cSequence 167810/cSequence 167810/cIdentification and Mapping of Single NucleotideTITLE 0F INVENTION: Polymorphisms in the Human GenomeTITLE 0F INVENTION: Polymorphisms in the Human GenomeTITLE 0F INVENTION: Polymorphisms in the Human GenomeTITLE 0F INVENTION: NUMBER: US/10/027632CURRENT APPLICATION NUMBER: US/0198,676PRIOR APPLICATION NUMBER: US 60/198,676PRIOR APPLICATION NUMBER: US 60/198,676PRIOR PLINCATION NUMBER: US 60/193,483PRIOR PLINCE DATE: 2000-07-12PRIOR PLINCE DATE: 2000-07-20PRIOR PLINCE DATE: 2000-07-20	Query Match17.3%; Score 33.2; DB 13; Length 824;Best Local Similarity 59.6%; Pred. No. 1.9;38; Indels 0; Gaps 0;Matches 56; Conservative 0; Mismatches 38; Indels 0; Gaps 0;Db384 ATATAAATGAGAAAACCCTATAAAACGCGGGGTTTTCAAGGATAGACATGGGTAGACATGATCAT 135Db384 ATATAAATGGGAAAACCCTATAAAACGCGGGGTTTTAAAAGGGTTGAACATGGGTTGAACATGGGTTGAACATGGAACATCATGGGAAAAGGCTGAAAAGGTTGAACATGGGTTGAACATGGGTTGAACATGGGTTGAACATGGGTTGAACATGGGTTGAACATGGGTTGAACATGGGTTGAACATGGGTTGAACATGGGAACATTTTAAAAGGGGGGTTGAACATGGGTTGAACATGGGTTGAACATGGGTTGAACATGGGTTGAACATGGGTTGAACATGGGTTGAACATGGGAGGGTTGAACAGTCATAAGGGGGGTTGTAACDb384 ATATAAATGGGAAAAGGCGGGTTGTAACGCAAGGGTTGAACATGGGTTGAACATGGGTTGAACATGGGAACATGTTAAAGGGGGGGTTGAACATGGGAACAAGGCAAAAGGCGAGGGTTGAACATGGGAGGGTTGAACATGGGAACAAGGGGTTGAACATGGGAACAAGGGGTTGAACATTTAAAAGGGGGGTTGAACATGGGAACAAGGCAAGGGGTTGAACATTTAAAAGGGGGGTTGAACATGGAAGGGTTGAACATGGGAACAAGGGGTTGAAAGGGGGGTTGAACCAGGGGTTGAACATGGGAGGGGGTTGAAAGGGGGGTTGAACATGGGAAGGGGTTGAAAGGGGGGGTTGAACATGGGAGGGGGTTGAAAGGGGGGGTTGAACATGGGAGGGGGGTTGAACAGGGGGGTTGAACATTTTAAAGGGGGGGTTGAACAGGGGGGTTGAACAGGGGGTTGAACATGGAAGGGGTTGAACAGGGGGGTTGAACATGGAAGGGGGGTTGAACAGGGGGGTTGAACATGGGAGGGGGTTGAACAGGGGGGTTGAACGGGGGGTTGAACGGGGGGTTGAACATGGGAGGGGGTTGAACAGGGGGGGTTGAACAGGGGGGGG

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Matches 77; Conservative 0; Mismatches 75; Indels 0; Gaps 0; CN 35 CATNATCTTGTCTATTCGTCATTTCGTCGGGGGGAAATGATGGGGGGGAAATGATGGGGGGGG	<pre>% SOFTWARE: Patentin version 3.0 % SEQ ID NO 2058 % LENTH: 3011208 % CRGANISM: Listeria innocua US-10-399-221-2058 US-10-399-221-2058 US-10-399-221-2058 US-10-399-221-2058 % Ouery Match 16.7%; Score 32; DB 17; Length 3011208; @uery Match 77; Conservative 0; Mismatches 75; Indels 0; Gaps 0; Matches 77; Conservative 0; Mismatches 75; Indels 0; Gaps 0; QY 35 CATAATCGTCGATTCGTCTATTTTCGATACCTTCGGGGAAATAGATGGTGAAAAACCCT 94</pre>	Db 1529778 Catgadactedeacceccettecatteriation 111111 11111 1111 11229337 Oy 95 TATAAAACGEGGGGTTTTCGCAGAAACATGGGGGAAGAGGCCATTGAAAACACT 154 Oy 95 TATAAAACGEGGGGTTTTCGCAGAAACATGGCGTAGTTATCATGAGAGAACACTGACAACTAGCACTAA 154 Db 1529838 GATTACGCAATGAATGTTGCCGGGAAACTGCTTCTACTTTTGCTGAAATGATTATTGCCGAT 1529838 GATTACGCAATGAATGTTGCCCAAGAAGGA 186 Qy 155 GCAAAAGTGCTTGTCCCCTGGCCAAGAAGGA 186 1	RESULT 11 US-10-425-115-71957, Application US/10425115 5 Sequence 71957, Application US/10425115 5 Sequence 71957, Application US/10425115 6 Distribution No. US20040214272A1 6 Supericant: La Rosa, Thomas J. 7 APPLICANT: La Rosa, Thomas J. 7 APPLICANT: Shou, Yihua 7 PELCONT: Shou, Yihua 7 PELCONT: Shou, Yihua 7 TILE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With 7 TILE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With 7 TILE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With 7 TILE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With 7 TILE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With 7 TILE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With 7 TILE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With 7 TILE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With 7 TILE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With 7 TILE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With 7 TILE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With 7 TILE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With 7 TILE OF INVENTION: NUCLEIC Acid Molecules Associated With 7 TILE OF INVENTION: NUCLEIC Acid Molecules Associated With 7 TILE OF INVENTION: TILE OF INVENTION: TILE OF INVENTION TILE
<pre>Sequence 6585, Application US/10027632 Publication No. U52003020407549 Fublication No. U52003020407549 FiltsERERAL INFORMATION: dentification and Mapping of Single Nucleotide Filts REPERENCE: 100827.129 CURRENT APPLICATION NUMBER: US/10/027,632 FILS REPERENCE: 100827.129 CURRENT APPLICATION NUMBER: US/01/027,632 FILS REPERENCE: 100807.129 CURRENT APPLICATION NUMBER: US/01/027,632 FILS REPERENCE: 100807.129 FILS REPERENCE: 100807.129 FILS REPERENCE: 00004-20 FILS REPERENCE: 00004-20 FILS APPLICATION NUMBER: US 60/199.656 FILS PRICE FILNE DATE: 2000-04-20 FILS APPLICATION NUMBER: US 60/199.656 FILS REPLICATION NUMBER: US 60/199.656 FILS REPLICATION NUMBER: US 60/199.656 FILS PRICE APPLICATION NUMBER: US 60/199.656 FILS PRICE REPLICATION NUMBER: US 60/195.218 FILS REPLICATION NUMBER: US 60/195.218 FILS REPLICATION NUMBER: US 60/156.358 FILS REPLICATION NUMBER: U</pre>	Query Match16.9%Score 32.4; DB 17; Length 484;Best Local Similarity60.7%; Pred. No. 2.8;32; Indels0; Gaps0;Matches51; Conservative1; Mismatches32; Indels0;0;Qy36 ATAATCTTGTCTGATTGTCTATTTTCAATACCTTGGGGGAAATAGATGGGGGGAAAAAGCCTT95110111	RESULT 9 US-10-398-221-8/c Sequence 8, Application US/10398221 ; Publication No. US20040018514A1 ; GENRRAL INFORMATION: APPLICANT: GLASER, Philippe ; APPLICANT: GLASER, Philippe ; TITLE OF INVENTION: Listeria innocua, genome and applications ; TITLE OF INVENTION: Listeria innocua, genome and applications ; CURRENT APPLICATE: 344 702 - US ; CURRENT APPLICATE: US/10/398,221	<pre>FRIOR APPLICATION NUMBER: PCT/FR 01/03 061 PRIOR FILING DATE: 2001-10-04 PRIOR FILING DATE: 2001-10-04 PRIOR FILING DATE: 2001-10-04 NUMBER: PE 2001-10-04 SOFTWARE: PatentIn version 3.0 SOFTWARE: PatentIn version</pre>

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Db 253 TGTCTACCAATGTGTGTGTGTGTACTAGTACTAAAAAAAA	Query Match16.2%Score 31.2; DB 10; Length 18272; Best Local Similarity 60.7%; Pred. No. 41; Matches 51; Conservative 0; Mismatches 33; Indels 0; Gaps 0; Oy 71 CGGGGAAATGGTGGAAAACCCTTATAAAACGCGGGTTTTCGCAGAAAACGGCGGTAGT 130 Db 17088 CGAGCAGGAGAATGGACGAGGAGAGAAATGGGGGGGGGG	RESULT 14 US-10-021-323-5754 Sequence 5754, Application US/10021323 Fublication No. US20040123340A1 GENERAL INFORMATION: APPLICANT: Peingen, Jill APPLICANT: Feng, Paul C.C. APPLICANT: Fincher, Karen L. APPLICANT: Ziegler, Todd E. TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With TITLE REFRENCE: 38-21(5274)B FILE REFRENCE: 38-21(5274)B CURRENT FILING DATE: 2001-12-14 PRIOR APPLICATION NUMBER: US 60/255, 619 PRIOR PLICATION NUMBER: US 60/255, 619 PRIOR PLICATION NUMBER: US 60/255, 619 RUMBER OF SEO ID NOS: 17880 SEO ID NO 5754	<pre>public the the transmission of transmission of the transmission of the transmission of the transmission of the transmission of transm</pre>
<pre>ORGANISM: Zea mays FRANTES: NAWE/KEY: unsure ioCATFON: (1)(732) OTHER INFORMATION: unsure at all n locations FRANTER: NAME/KEY: NAME/KEY: COTHER INFORMATION: Unsure at all n locations FRANTER: NAME/KEY: SEATURE: COTHER INFORMATION: Unsure at all n locations FRANTER: Norther is 5%; Cone ID: MRT4577_165627C.1 US-10-425-115-71957 Ouery Match Best Local Similarity 58.5%; Pred. No. 6.3; Matches 55; Conservative 0; Mismatches 39; Indels 0; Gaps 0; Matches 55; Conservative 0; Mismatches 39; Indels 0; Gaps 0; Matches 55; Conservative 0; Mismatches 39; Indels 0; Gaps 0; Matches 55; Conservative 0; Mismatches 39; Indels 0; Gaps 0; Matches 55; Conservative 0; Mismatches 39; Indels 0; Gaps 0; Matches 55; Conservative 1101111111111111111111111111111111111</pre>	RESULT 12 US-10-674-124A-12097/c 5 Sequence 12097, Application US/10674124A F Publication No. US20040197797A1 6 GENERAL INPORMATION: APPLICANT: INOKO, Hidetoshi APPLICANT: INOKO, Hidetoshi APPLICANT: INOKO, Hidetoshi TITLE OF INVENTION: GENE MAPPING METHOD USING MICROSATELLITE TITLE OF INVENTION: GENETIC POLYMORPHISM MARKERS FILLE REFERENCE: ORIN-003CIP FULR REFERENCE: ORIN-003CIP CURRENT FILLNG DATE: 2003-09-26 CURRENT FILLNG DATE: 2003-09-26	PLICATION NUM LING DATE: 200 LING DATE: 200 LING DATE: 200 PLICATION NUM PLICATION NUM LING DATE: 200 PLICATION NUM LING DATE: 200 PLICATION NUM LING DATE: 200 PLICATION NUM LING DATE: 200 PLICATION NUM NM AM NM NM NM NM NM NM NM NM NM N	

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48 GATTCGTCTATTTTCCAATACCTTCGGGGGAAATAGATGTGGAAAAACCCCTTATAAAAACGCGGG 107 235 GAATCATTTGAGTTCAAGACTGCTGAAGAAAAAGTTATCGAAGGTCTTGACCAAGCAGTG 176 15 ATGACGATGAATAAGGGAGAGAATAGCTTTGGTGACAATATGCCTTCTTG 116 108 TTTTCGCAGAAACATGCGCTAGTATCATTGATGACAACATGGGACTAAGCCAAAAGTGCCTTG 167 0; Gaps ustructor:usstand bublication No. US20040016025A1 Sequence 5041, Application US/10260238 publication No. US20040016025A1 GENERAL INFORMATION: APPLICANT: Budworth, Paul R. APPLICANT: Budworth, Paul R. APPLICANT: Cooper, Bret APPLICANT: Golf, Steven P. APPLICANT: Golf, Steven P. APPLICANT: Golf, Steven A. APPLICANT: Funiyaki APPLICANT: Frowart, Nicholas APPLICANT: Provart, Nicholas PRIOR APPLICANTON: PROVARES PRIOR APPLICANTON NUMBER: US 60/370, 620 NUMBER OF SEQ ID NOS: 6077 SEQ ID NO 5041 APPLICATION NOS: 6077 APPLICANT APPLICATION NOS 5077 APPLICANT APPLICATION NOS 5077 APPLICAN Query Match 15.9%; Score 30.6; DB 17; Length 549; Best Local Similarity 51.9%; Pred. No. 12; Matches 69; Conservative 0; Mismatches 64; Indels 0. Search completed: August 6, 2005, 01:45:25 Job time : 428.986 secs FEATURE: RAME/KEY: misc feature LOCATTON: (547)...(547) OTHER INFORMATION: n = any nucleotide US-10-260-238-5041 FEATURE: NAME/YERY: misc_feature NOCATION: (12)..(13) OTHER INFORMATION: n = any nucleotide FEATURE: NAME/FETY: misc_feature LOCATION: (23)..(23) OTHER INFORMATION: n = any nucleotide FEATURE: NAME/KEX: misc feature LOCATION: (415).(416) OTHER INFORMATION: n = any nucleotide 168 TCCCCTGACCCAA 180 115 TCCACTGAATCAA 103 TYPE: DNA ORGANISM: Musa acuminata RESULT 15 US-10-260-238-5041/c q q $\hat{\mathbf{a}}$ \mathbf{S} g 5

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Scoring table:

IDENTITY NUC Gapop 10.0, Gapext 1.0

1202784 segs, 818138359 residues Searched: 2405568 Total number of hits satisfying chosen parameters:

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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<pre>2 4 US-09-949-016-13019 7 4 US-09-596-002-36 21 4 US-09-557-884-1 2 4 US-09-557-884-1 1 4 US-09-949-016-11808 1 4 US-09-949-016-11808 0 4 US-09-949-016-117122 3 4 US-09-949-016-117122 5 4 US-09-949-016-117122 5 4 US-09-949-016-117122 8 4 US-09-949-016-117369 7 4 US-09-949-016-117369 7 4 US-09-949-016-117369 8 4 US-09-949-016-117369 7 4 US-09-949-016-117369 9 3 US-09-949-016-117369 9 4 US-</pre>	ALIGNMENTS 9513999C J.B. equence Tags and 09/513,999C /122,487	<pre>imilarity 17.0%; Score 32.6; DB 4; Length 278; imilarity 51.0%; Pred. No. 0.11; ; Conservative 0; Mismatches 74; Indels 0; Gaps rGAAGTGGGTTGGCTTATCGTGTATTCATAATTTKGGGGGG TCATGTGGATTGTTTTCGTGTATTCATAATTTKGGGGGGG TCATGTGGATTGTTTTCGTGTATTCATAATTTKGGGGGGG TATAGTGGATTGTTTTCGGGGGGGTTTTCGGGGGGGGTATTCATAATTTKGGGGGG ATGATGTGATTATAAAGCGGGGGTTTTCGCAGAAACTGCGGGGGGGTATCATTG ATGATGTGATAATATAAAGCGGGGGTTTTCGCAGAAACTGGGGGGG ATGATGTGATTATAAAGCGGGGGTTTTCGCAGAAACTGGGGGGG ATGATGGGATGATAATATACGGGGTGGGGT</pre>
8 29 15.1 91062 29 15.1 92407 29 15.1 183012 29 15.1 183012 29 15.1 183012 29 15.1 183012 29 15.1 183012 29 15.0 636591 28.6 14.9 2636593 28.6 14.9 2636593 28.6 14.9 2636593 28.8 14.9 2636593 28.4 14.9 2636593 28.5 14.4 850381 28.4 14.8 73081 28.2 14.4 850381 28.2 14.6 61178 28 14.6 61178 28 14.6 61178 27.8 14.6 7309 27.8 14.5 1179 27.8 14.5 1179 27.8 14.5 1273	1 1-999C-31601 at No. 6703961 at No. 6703961 at No. 6703961 at No. 6703961 LICANT: Dunds Milne E LICANT: Dunds Milne E LICANT: Dunds Milne E LICANT: Dunds Milne E LICANT: Dunds Milne E REEFERCES 59.US2.R E REFERENCE 59.US2.R E REFERENCE 59.US2.R E REFERENCE 59.US2.R E REFERENCE 59.US2.R APPLICATION NUMBER OR FILING DATE: 1999- BER OF SEQ ID NOS: 36 TWARE PATENTON NUMBER OR FILING DATE: 1999- BER OF SEQ ID NOS: 36 TWARE: PATENTON NUMBER OR FILING DATE: 1999- BER OF SEQ ID NOS: 36 TWARE: PATENTON NUMBER ATURE: PATENTON NUMBER MERTH: 278 PE: DNA NGTH: 278 PE: DNA NGTH: 278 PE: DNA MERTHON SEC CATION: 152 CATION: 152 CATION: 152 CATION: K=G CATION: 152 CATION: K=G CATION: 152 CATION: K=G CATION: K=G	<pre>/ Match Local S l</pre>
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<pre>TITLE OF INVENTION: FOLYMORPHISMS IN KNOWN GENES ASSOCIATED TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF FILLE REFERENCE: CLOOIJO7 CURRENT APPLICATION NUMBER: US/09/949,016 CURRENT APPLICATION NUMBER: US/09/949,016 CURRENT APPLICATION NUMBER: US/09/949,016 CURRENT PILING DATE: 2000-04-14 FRIOR FILING DATE: 2000-10-30 FRIOR FILING DATE: 2000-10-30 FRIOR FILING DATE: 2000-09-08 FRIOR FILING DATE: 2000-09-08 FRIOR FILING DATE: 2000-09-09 FRIOR FILING DATE: 2000-09-08 FRIOR FILING DATE: 2000-10-30 FRIOR FILING DATE: 2000-30-98 FRIOR FILING DATE: 2000-30-98 FRIOR FILING DATE: 2000-31.1 FRIOR FILING DISTING DISTING DISTING FRICH SIJ CONSENTATIONAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA</pre>	19111 SULT 3 -09-949-016- Sequence 155 BREAL INFO APPLICANT: TITLE OF IN TITLE OF IN TITLE OF IN TITLE OF IN TITLE OF IN FILE RFEHER APPLICANT: TITLE OF IN FILE OF I

-1_copy_1_192.rni Page 3	<pre>; OTHER INFORMATION: Description of Artificial Sequence: synthetic ; OTHER INFORMATION: nucleic acid sequence US-09-710-279-603 Us-09-710-279-603 Query Match Best Local Similarity 57.3%; Pred. No. 1.6; Best Local Similarity 57.3%; Pred. No. 1.6; Matches 55; Conservative 0; Mismatches 41; Indels 0; Gaps 0; QY 49 ATTCGTCTATTTTCAAACCTTCGGGGAAATAGATGATGAAAACCCTTATAAAACGCGGGT 108 </pre>	Qy 109 TTCGGCAGAAACATGCGCTAGTATTGATGACAA 144 Db 147 TAACGCGGATATATTGATGGTTTGATTGATGACAAA 182 Db 147 TAACGCGGATATATTGATGGTTTGATTGATGACAAA 182 RESULT 8 187 111 <t< th=""><th> ÖTHER INFORMATION: DESCRIPTION OF ARTIFICIAL Sequence: Synthetic ÖTHER INFORMATION: nucleic acid sequence US-09-710-279-3485 US-09-710-279-3485 US-09-710-279-3485 Ouery Match Best Local Similarity 57.3%; Pred: No. 2.3; Duert Matches 55; Conservative 0; Mismatches 41; Indels 0; Gaps 0; QY 49 ATTCGATCATATACCTTCGGGGAAATAGATCGATGAAAACCCTTATAAAACGGGGT 108 D 542 ATATGAATAATACATAGACTAGAGGAAATAGATCGTCACTATAAAACGGGGGT 108 D TATGGAAAACATGGCTAGTAATAGCTAGATGATGATGATGATAAAA D TATGGGGAAAAATAATGAGGCAACTAGATGATGATAAAAA D TATGGGGAAAAATTGATGATGATTGATGATGATGATGATAAAA D TATGGGGAAAAATTGATGATTGATGATGATGATGATGATAAAAA D TATGGGGAAAAATTGATGATTGATGATGATGATGATGATAAAAA D TATGGGGGAAAAATTGATGATTGATGATGATGATGATAAAAAA</th><th>RESULT 9 US-09-634-238-410/c Sequence 410, Application US/09634238 Fatent No. 6544772 GENERAL INFORMATION: APPLICANT: Giann, Matthew APPLICANT: Bloksberg, Leonard, N. APPLICANT: Lubbers, Mark W. APPLICANT: Lubbers, Mark W. APPLICANT: Lubbers, Mark W. APPLICANT: Lubbers, Mark W. APPLICANT: Christenson, Anna C. APPLICANT: Christenson, Anna C. APPLICANT: Reid, Julian R. APPLICANT: Coolbear, Timothy APPLICANT: Coolbear, Timothy APPLICANT: Coolbear, Timothy TITLE OF INVENTION: Polynucleotides, materials incorporating TITLE OF INVENTION: Polynucleotides, materials incorporating TITLE REFERENCE: 11000.1043U1 CURRENT APPLICANTION NUMBER: US/09/634,238 CURRENT FILING DATE: 2000-08-08</th></t<>	 ÖTHER INFORMATION: DESCRIPTION OF ARTIFICIAL Sequence: Synthetic ÖTHER INFORMATION: nucleic acid sequence US-09-710-279-3485 US-09-710-279-3485 US-09-710-279-3485 Ouery Match Best Local Similarity 57.3%; Pred: No. 2.3; Duert Matches 55; Conservative 0; Mismatches 41; Indels 0; Gaps 0; QY 49 ATTCGATCATATACCTTCGGGGAAATAGATCGATGAAAACCCTTATAAAACGGGGT 108 D 542 ATATGAATAATACATAGACTAGAGGAAATAGATCGTCACTATAAAACGGGGGT 108 D TATGGAAAACATGGCTAGTAATAGCTAGATGATGATGATGATAAAA D TATGGGGAAAAATAATGAGGCAACTAGATGATGATAAAAA D TATGGGGAAAAATTGATGATGATTGATGATGATGATGATAAAA D TATGGGGAAAAATTGATGATTGATGATGATGATGATGATAAAAA D TATGGGGAAAAATTGATGATTGATGATGATGATGATGATAAAAA D TATGGGGGAAAAATTGATGATTGATGATGATGATGATAAAAAA	RESULT 9 US-09-634-238-410/c Sequence 410, Application US/09634238 Fatent No. 6544772 GENERAL INFORMATION: APPLICANT: Giann, Matthew APPLICANT: Bloksberg, Leonard, N. APPLICANT: Lubbers, Mark W. APPLICANT: Lubbers, Mark W. APPLICANT: Lubbers, Mark W. APPLICANT: Lubbers, Mark W. APPLICANT: Christenson, Anna C. APPLICANT: Christenson, Anna C. APPLICANT: Reid, Julian R. APPLICANT: Coolbear, Timothy APPLICANT: Coolbear, Timothy APPLICANT: Coolbear, Timothy TITLE OF INVENTION: Polynucleotides, materials incorporating TITLE OF INVENTION: Polynucleotides, materials incorporating TITLE REFERENCE: 11000.1043U1 CURRENT APPLICANTION NUMBER: US/09/634,238 CURRENT FILING DATE: 2000-08-08
Mon Aug 8 15:40:17 2005 Won Aug 8 15:40:17 2005	Best Local Similarity 58.1%; Pred. No. 0.86;Matches 54; Conservative 0; Mismatches 39; Indels 0; Gaps 0;Qy56 TATTTTCAATACCTTCGGCGAAATAGATGGTGGAAAAACCCTTATAAAAGGGGGGGG	RESULT 6 US-09-949-016-13175/c US-09-949-016-13175/c Sequence 13175, Application US/09949016 Patent No. 681239 GENERAL INFORMATION: APPLICANT: VENTER, J. Craig et al. APPLICANT: VENTER, J. Craig et al. TITLE OF INVENTION: POLNORPHISMS IN KNOWN GENES ASSOCIATED TITLE OF INVENTION: POLNORPHISMS IN KNOWN GENES ASSOCIATED FILE REFERENCE: CLOO1307 CURRENT PELLORTION NUMBER: 60/241,755 PRIOR PELLORTION NUMBER: 60/231,458 PRIOR PELLORTION NUMBER: 60/231,498 PRIOR PELLORTION	<pre>product in the control of the c</pre>	RESULT 7 US-09-710-279-603 Sequence 603, Application US/09710279 Fatent No. 6703492 GENERAL INFORMATION: APPLICATTON: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS FILE REFERENCE: PU3480US FILE REFERENCE: PU3480US CURRENT FILING DATE: 2000-11-09 FUICR APPLICATION NUMBER: 60/164,258 PRIOR APPLICATION NUMBER: 0005: 4472 SOFTWARE: PALENTIN VEY. 2.1 LENCOPTI 1569 TYPE: DNA ORGANISM: Artificial Sequence FEATURE:

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GENES AS THODS OF	Query Match15.4%; Score 29.6; DB 4; Length 601;Best Local Similarity 59.3%; Pred. No. 2;Best Local Similarity 59.3%; Pred. No. 2;Matches 50; Conservative 0; Mismatches 34; Indels 0; Gaps 0;Qy96 ATAAAAGGGGGGTTTTGGCAGAAAACAGGCGCTAGTATCATTGATGACAACATGGACTAAG 155Db108 ATATGACCCAGTAGTCTTTGAAAGGTCCTTCCCTATCTTTATGACAAGATGTTCCAAG 49Qy156 CAAAAGTGCTTGTAAAGGTCCTTGCCAGCCAAGTCTTTATGACAAGATGTTCCAAG 49Qy156 CAAAAGTGCTTGTCCCTGACCCA 179Db48 CTTATTTGTATATTTCCTGCCCCA 25Db48 CTTATTTGTATATTTCCTGCCCCA 25	RESULT 12 US-09-349-016-17095/c Sequence 17095, Application US/09949016 Secuent No. 6812339 REERL INPORMATION: TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF FILE REFERENCE: CLO01307 CURRENT APPLICATION NUMBER: US/09/949,016 CURRENT FILING DATE: 2000-04-14 PRIOR FILING DATE: 2000-10-20 PRIOR APPLICATION NUMBER: 60/231,755 PRIOR FILING DATE: 2000-10-20 PRIOR FILING DATE: 2000-10-20 PRIOR FILING DATE: 2000-10-20 PRIOR FILING DATE: 2000-10-03 PRIOR FILING DATE: 2000-010-03	<pre>> NUMBER DE SECTED NOS: ZUTULZ > NUMBER FRAESEQ for Windows Version 4.0 > SOFTWARE FRAESEQ for Windows Version 4.0 > SEQ ID NO 17095 > TYPE: DNA > ORGANISM: Human US-09-949-016-17095 Ouery Match 15.4%; Score 29.6; DB 4; Length 36855; Best Local Similarity 59.5%; Pred. No. 15; Matches 50; Conservative 0; Mismatches 34; Indels 0; Gaps 0; Oy 96 SATAAAGGGGGTTTTGGAAAAAGGGGGGGGGGGGGGGGG</pre>
<pre>% NUMBER OF SEQ ID NOS: 422 % SOFTWARE: FastSEQ for Windows Version 4.0 % SEQ ID NO 410 % LENGTH: 10303 % Lacotacillus rhamnosus % ORGANISM: Lactobacillus rhamnosus % 0.5% Pred. No. 6.7 % Matches 49; Conservative 0; Mismatches 32; Indels 0; Gaps 0; % 112 CGCAGAAACAGCGCAGGCAAGGAACAAGGACAAAGGAAAGGAAAGGAACAAGGAAGGAAGGACAAGGACAAGGAAGAAGGAAGGAAGGAAGGAAGAAGGAAAGAAGAAAA</pre>	RESULT 10 US-09-949-016-15255/c Sequence 15255, Application US/09949016 Fatent No. 6812339 Retent No. 6812339 RAPLICANT: VENTER, J. Craig et al. TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF CURRENT APPLICATION NUMBER: US/09/949.016	CURRENT FILING DATE: 2000-04-14 PRIOR APPLICATION NUMBER: 60/241, 755 PRIOR FILING DATE: 2000-10-20 PRIOR APPLICATION NUMBER: 60/231, 768 PRIOR FILING DATE: 2000-10-03 PRIOR FILING DATE: 2000-10-03 PRIOR FILING DATE: 2000-09-08 NUMBER OF SEQ ID NOS: 207012 SEQ ID NOS: 207012 SEQ ID NOS: 207012 LENGTH: 99797 TYPE: DNA ORGANISM: Human FEATURE: MAME/KEY: misc_feature NAME/KEY: misc_feature CONTRR INFORMATION: n = A, T,C OT G US-09-949-016-15255	Query Match15.5%Score 29.8DB 4Length 99797Best Local Similarity 51.1%Fred. No. 21Matches 70; Conservative 0; Mismatches 67Indels 0Gaps 0QY40 TCTTGTCGGGTGATTGGTCATTTCATAACGGGGGAAATAGATGGTGGAGGGGGTAAACCTTATAA 99Db32501 TGTAGGATGAATCGTGCATTGAGGGGGGAAATAGAAGGAGGGGGGGG

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<pre>No. 6617156 L INFORMATION: CANT: Lynn Doucette-Stamm et al CANT: Lynn Doucette-Stamm et al OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES NT APPLICATION NUCLER: 0.90/0134,000C NT APPLICATION NUMBER: US 09/134,000C NT FILIGD DATE: 1997-08-13 APPLICATION NUMBER: US 60/055,778 FILIGNG DATE: 1997-08-15 R OF SEQ ID NOS: 6812 ARE: Patentin version 3.1 NO 3331 TH: 76 NO 3331 NG SEC ID NOS: 6812 ARE: Patentin version 3.1 NO 3331 NG SEC ID NOS: 6812 ARE: Patentin version 3.1 NO 3331 NG SEC ID NOS: 6812 ARE: Patentin version 3.1 NO 3331 NG SEC ID NOS: 6812 ARE: Patentin version 3.1 NG 3331 NG SEC ID NOS: 6812 NG SEC ID NOS NG SEC ID NOS NG</pre>	Query Match15.3%Score 29.4; DB 4; Length 768;Best Local Similarity 63.4%; Pred. No. 2.6;Indels 0; GapsMatches 45; Conservative 0; Mismatches 26; Indels 0; GapsOY97 TAAAGGGGGTTTTCGCGGAAAACAATGGGCTAAGCATGACAATGACATGGACTAAGCOY97 TAAAGGGGTTGGGGGAAAACAAGGGGTGAGTAACATTGATGACAATGACAATGACATGACAATGACATGACAATGACAATGACATGACACATGACAATGACATGACACATGACACATGACAATGACATGACAATGACATGACAATGACATGACAATGACAATGACAATGACAATGACACATGACACATGACAATGAATG	RESULT 14 US-09-949-016-142351/C US-09-949-016-142351/C F Sequence 142351, Application US/09949016 F Patent No. 681239 GRUERAL INFORMATION: APPLICANT: VENTER, J. Craig et al. APPLICANT: VENTER, J. Craig et al. APPLICANTON NUMBER: 00/949, 016 CURRENT FILING DATE: 2000-10-414 PRIOR APPLICATION NUMBER: 60/231, 768 PRIOR APPLICATION NUMBER: 60/231, 758 PRIOR APPLICATION NUMBER: 60/231, 758 PRIOR APPLICATION NUMBER: 700-10-20 PRIOR APPLICATION NUMBER: 700-30-30 PRIOR APPLICATION NUMBER: 700-30 PRIOR APPLICATION NUMBER: 700-30 PRIOR APPLICATION NUMBER: 700-30 PRIOR APPLICATION NUMBER: 700-30 PRIOR APPLICATION NUMBER PRIOR APPLICAT	Query Match15.2%; Score 29.2; DB 4; Length 601;Beet Local Similarity 54.7%; Pred. No. 2.7;Natches 58; Conservative 0; Mismatches 48; Indels 0; GapsQY55 CTATTTTCAATACCTTCGGGGAAATAGATGGTGAAACCCTTATAAAACGGGGGTTTTCGCDb265 CTAGTGTTAAAAAACCCACAAAAAGAGGGGGGGGGGGGG

GENBRAL INFORMATION: APPLICANT: VENTER, J. Craig et al. TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF FILE REFERENCE: CLOOLJO7 CURRENT APPLICATION NUMBER: US/09/949,016 CURRENT APPLICATION NUMBER: US/09/949,016 CURRENT FILING DATE: 2000-041,755 PRIOR APPLICATION NUMBER: 60/231,758 PRIOR APPLICATION NUMBER: 60/231,768 PRIOR APPLICATION NUMBER: 60/231,768 PRIOR FILING DATE: 2000-10-20 PRIOR FILING DATE: 2000-10-20 PRIOR FILING DATE: 2000-10-03 PRIOR FILING DATE: 2000-10-03 PRIOR FILING DATE: 2000-10-03 PRIOR FILING DATE: 2000-10-03 PRIOR APPLICATION NUMBER: 60/231,498 PRIOR APPLICATION NUMBER: 60/231,498 PRIOR APPLICATION NUMBER: 2000-10-03 PRIOR APPLICATION NUMBER: 2000-10-20 PRIOR APPLICATION NUMBER: 50/231,498 PRIOR APPLICATION NUMBER: 2000-10-03 PRIOR APPLICATION NUMBER: 2000-10-03 PRIOR APPLICATION NUMBER: 2000-10-20 PRIOR APPLICATION NUMBER: 50/231,498 PRIOR APPLICATION NUMBER: 2000-10-03 PRIOR APPLICATION NUMBER: 50/231,498 PRIOR APPLICATION NUMBER: 2000-10-20 PRIOR APPLICATION NUMBER: 5000-10-20 PRIOR APPLICATION NUMBER: 2000-10-20 PRIOR APPLICATION NUMBER: 5000-10-20 PRIOR APPLICATION NUMBER: 2000-10-20 PRIOR APPLICATION NUMBER: 5000-10-20 PRIOR APPLICATION NUMBER: 2000-10-20 PRIOR APPLIC

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QY 83 TGTGAAAACCCTTATAAAACGCGGGGTTTCGCAGAACATGGGCTAGTATCATTGATGAC 14 14 14 14 14 14 14 14 14 14 15 14 14 14 14 16 14 14 14 14 17 14 14 14 14 18 TAGCAAGGTTTGATAAGCAGGAGGTTTAGCTTAGTCGGGTTCGGTTCGGTTGGTGTGT 445 Qy 143 AACATGGACTAA 154 0b 446 ATTCTGTAGTAA 457		<pre>UKGANISM Mus musculus Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. Marman(M, Malek, J., Shatsman, S., Akinret, B., Levins, M., Tregaye, G., Geer, K., Krol, M., Shvattsbeyn, A., Gebregeorgis, E., Russell, D., de Jong, P. and Fraser, C.M. TTLLE Mouse BAC End Sequences from Library RPCI-24 JOURNAL Unpublished (1999) COMMENT Contact: Shaying Zhao Contact: Shaying Zhao</pre>	Department or Eukaryout Genomics The Institute for Genomic Research 9712 Medical Center Dr., Rockville, MD 20850, USA Tel: 301 838 0200 Faz: 301 838 0200 Faz: 301 838 0200 Faz: 301 838 0200 Faz: 301 838 0200 Clones are derived from the mouse BAC library RPCI-24. For BAC Ilbrary availability, please contact Pieter de Jong (pdejong@mail.cho.org). Clones may be purchased from BACPAC Resources (http://www.clones.may be purchased from BACPAC Resources (http://www.clones.may be purchased from Lintro.html Place: 254 row: N column: 24 Seq primer: T7 Class: BAC ends.	FEATURES Location/Qualifiers source 1.749 /organism="Mus musculus" /mol type="genomic DNA" /mol type="C57BL/60" /db_xref="texcn1000" /clone="RPC1-24-254N24"	/sex="maps"Spleen/Brain" /cell_type="Spleen/Brain" /clome_tib="RPC1-24" /note="Vector: pTARBAC1; Site_1: BamH1; Site_2: BamH1; RPC1-24 Mouse BAC Library produced by Pieter de Jong. The RPC1-24 Mouse BAC Library produced by Pieter de Jong. The BamH1 sites using MboI partially digested male C57BL/6J DNA."	ORIGINORIGINQuery Match19.0%; Score 36.4; DB 8; Length 749;Query Match19.0%; Score 36.4; DB 8; Length 749;Best Local Similarity 54.5%; Pred. No. 2.1;Matches 73; Conservative 0; Mismatches 61; Indels 0; Gaps 0;Qy13 GGCCATGAAGTGGCTTGAAGTGAATATCTTGTCTGAATTGAATACCTTCG 72Qy13 GGCCATGAAGTGGCTTGAAATCATGCTGATTGATAATCTTCG 72Db456 GGCATTCACGTGCGCTTCACATGCAAAATCATGCCTGATGATAATGTTGCCAGTAATTCTTGC 397	QY 73 GGGAAATAGATGTGAAAACCCTTATAAAACGCGGGGTTTTTCGCAGAAACATGCGGCTAGTAT 132 Db 396 ATGCATTGGGTGTGAATACCATAATGCAGTAGCCCTCCATTTTGAAGCCATCGCTGTTAT 337 V 133 CATTGATGACAACA 146

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<pre>SOURCE Mus musculus (house mouse) Mus musculus (house mouse) ORGANIEM Mus musculus (house mouse) Mus musculus Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. REPERBNCE 1 (bases 1 to 600) AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., I (bases 1 to 600) AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R., TITLE Muse whole genome scaffolding with paired end reads from 10kb Dasmid inserts JOURNAL Unpublished (2000) Contact: Robert B. Weiss University of Utah Genome Center University of Utah Renome Conter: Research Bldg., 20 S. 2030 E., SLC, UT 04112, USA</pre>	<pre>Tel: 801 585 5106 Fax: 801 585 7177 Email: ddum@genetiss.utah.edu Email: ddum@genetiss.utah.edu Email: ddum@genetiss.utah.edu Email: ddum@genetiss.utah.edu Ensert Length: 10000 Std Error: 0.00 Plate: 0234 row: D column: 24 Seq primer: CACAGGAAAGGTAATGACC Seq primer: CACAGGAAAAGGTAATGACC Class: plasmid ends 1: 600 Incertion/Qualifiers Class: plasmid ends 1: 600 Incertion(Dalifiers) Corganism=Wus musculus" Corganism=Wus musculus" Corganism=Wus musculus" Corganism=Wus musculus" Corganism=Wus musculus" Corganism=Wus musculus" Corganism=Wus musculus" Corganism=Wus musculus" Corganism=Wus musculus" Corganism=Wus musculus" Corden: Plasmid UUGC2M library" Corne=Tucctor: PWD42nv; Purified genomic DNA Corne=Tucetor: PWD42nv; Purified genomic DNA Musculus C57BL/6J (female) was obtained from the JacKson Corne=Tucetor: PWD42nv; Prified genomic DNA Musculus C57BL/6J (female) was obtained from the JacKson Corne=Tucetor: PWD42nv; Prified genomic DNA Musculus C57BL/6J (female) was obtained from the JacKson Corne=Tucetor: PWD42nv; Parified and size-selected for a 9.5 to 1005 ind the obtenesis Adaptor oligonucleotides were Digated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.05 kb range using preparative genome from a derivative concettorered DNA was purified and size-selected for a 9.5 to 10.05 kb range using preparative of portonumber interventive concettorered DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative of portonumber interventive concettorered DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative of portonumber interventive concettorered DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative of portonumber interventive concettorered DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative of portonumber interventive concettorered DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative of portonumber interventinterventive concettor</pre>	Inducible derivative or pushum AL. INE VECTOR was and with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XII0-Gold (Stratagene) cells and selected for ampicillin resistance." ORIGIN		QY 111 TCCCAGAAACATCGCCTAGTATCATTGATGGACTAACCAAAAG 161 Db 210 1 <
 ACCESSION BH378221 ACCESSION BH378221.1 GI:17324363 VERNORDS GS. BH378221.1 GI:17324363 VERWORDS GS. Anopheles gambiae (African malaria mosquito) Anopheles gambiae (African malaria mosquito) Anopheles. REPERENCE 1 (bases 1 to 590) AUTHORS HONGY'S. HOGAN, Wang,X., Sarkar,A., Sim,C., Loftus,B.J., Anopheles. REPERENCE 1 (bases 1 to 590) AUTHORS HONG,Y.S., HOGAN, Wang,X., Sarkar,A., Sim,C., Loftus,B.J., Anopheles. REPERENCE 1 (bases 1 to 590) AUTHORS HONGY'S. HOGAN, Wang,X., Sarkar,A., Sim,C., Loftus,B.J., Anopheles. REPERENCE 1 (bases 1 to 590) AUTHORS HONG,Y.S., HOGAN,Y., Wang,X.L., Black,K., Zhang,HB., Cardner,M.J. and Collins,F.H. TITLE Construction of BAC library and generation of BAC end for the African malaria mosquito Anopheles gambiae JOURNAL MOL. Genet. Genomics 268 (6), 720-728 (2003) MEDLINE 2254265 	12655398	Query Match 17.9%; Score 34.4; DB 8; Length 590; Best Local Similarity 53.8%; Pred. No. 8.4; Best Local Similarity 53.8%; Pred. No. 8.4; Matches 71; Conservative 0; Mismatches 61; Indels 0; Gaps 0; QY 38 AATCTTGTCTGTGTGTTATTTTCATACCTTCGGGGAAATAGATGTGAAAACCCTTAT 97 QY 38 AATCTTGTTGTTGTTTTTCATACCTTCGGGGAAATAGATGTGAAAACCCTTAT 97 Db 459 AATTTTATCTTTTTTTTTTCATTCTTCCACTTCTACGAGGCAATTAGAATTAGATTAGATGT 518	QY 98 AAAAGGGGGTTTTCGCAGAAACATGGGGCTAGGACTAAGGA 157 Db 519 AAAAGGCGGTTTTAGTTGAATGTTAAGCTCGTCACAAAAAAGGGGGGGG	RESULT 5 A2964976/c A2964976 LOCUS A2964976 A2964976 DEFINITION 2M0234D34R Mouse 10kb plasmid UUGC2M library Mus musculus genomic 200ne UUGC2M0234D24 R, genomic survey sequence. ACCESSION A2964976.1 GI:13836203 KEYWORDS GSS. GSS.

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AUTHORS Genoscope. TITLE Direct Submitsion TITLE Direct Submitsion TITLE Direct Submitsion JOURNAL Submitted (08-SEP-2000) Genoscope - Centre National de Sequencage, JOURNAL Submitted (08-SEP-2000) Genoscope - Centre National de Sequencage, Seqrefégenoscope.cns.fr - Web : www.genoscope.cns.fr) Esqrefégenoscope.cns.fr - Web : www.genoscope.cns.fr) FRANCE. (E-mail : Secretses: Saccharomyces bayanus var. uvarum, Saccharomyces rexiguus, Saccharomyces bayanus var. uvarum, Saccharomyces lactis var. lactis, Kluyveromyces thermotolerans, Kluyveromyces lactis var. lactis, Kluyveromyces thermotolerans, Kluyveromyces lactis var. lactis, Kluyveromyces thermotolerans, Kluyveromyces factis var. lactis, Kluyveromyces arxianus var. marxianus, Pichia angusta, Debaryomyces hansenii var. hansenii, Pichia sorbitophila, candida tropicalis and Varrowia lipolytica. Genomic inserts of 3 to 5 kb were prepared and both extremities were sequenced. See keywords for description of this sequence and for the sequence of the other extremity of this insert. FEATURES BOURCE Distromyces lacenomyces lactis Model how and and both to and the read endomit Date (organisme.cennomyces lactis Model how and and both to and the read endomited by a lactis Model how and and both the other extremity of this insert. FEATURES Dorgen Date Model how and and both the other extremity of this insert. Model how and and both the other extremity of this insert. Model how and and both Model h	<pre>/strain="CLIB 210" /variety="lactis" /db.rref="taxton:28985" /db.rref="taxton:28995" /dlone="BA0AB03B09" /clone="bA0AB03B09" /clone_lib="BA0AB" /clone_lib="BA0AB" /clone_socharomyces cerevisiae ORF YPR010c { /note="similar to Saccharomyces cerevisiae ORF YPR010c f /note="similar to saccharomyces cerevisiae ORF YPR010c f /note="si</pre>	Query Match17.5%Score 33.6; DB 9; Length 845;Best Local Similarity54.1%; Pred. No. 16;5, Indel8Matches66; Conservative1; Mismatches55; Indel8Qy23 TGGCTTGACAAGCATAATCTTGTCTGTCTGTTTTTTCAATACCTTCGGGGAAATAGA82Qy23 TGGCTTGACAAGCATAATCTTGTCTGCTGGGAAATAGA82Db165 TAGTTTGAGAAGCATCGTCTGATCGTCTAATTTCCAATACCTTGGGGGAAATAGA82		CA394392 (CS51a07.yl Human Ret (Un-normalized, unau 5', mRNA sequence. CA394392.1 GI:24728 EST. EST. Homo sapiens (human) 1 Homo sapiens	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleoscomi; Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleoscomi; Mammala; Eutheria; Primates; Catarrhini; Hominidae; Homo. AUTHORS Wistow,G., Bernstein,S.L., Wyatt,M.K., Farris,R.N., Behal,A., TITLE Syressed sequence tag analysis of human RPE/choroid for the NEIBank Project: Over 6000 non-redundant transcripts, novel genes JOURNAL MOL Vis. 8 (4), 205-220 (2002) MEDLINE 22103460 PUBMED 12107410 COMMENT 22103460 PUBMED 12107410 COOMENT Esction on Molecular Structure and Function National Eye Institute (5/331, NIH, Betheeda, MD 20892-2740, USA
COMMENT This GSS is part of a random genomic sequencing program of thirteen yeast species: Saccharomyces bayanus var. uvarum, Saccharomyces variguus, Saccharomyces servazzii, Zygosaccharomyces rouxii, saccharomyces kervazzii, Zygosaccharomyces rouxii, saccharomyces kluyveromyces hermotolerans. Kluyveromyces lactis var. lactis, Kluyveromyces marxianus var. marxianus, Pichia angusta. Debaryomyces hansenii var. hansenii, Pichia sorbitophila, candida tropicalis and both extremities were sequenced. See keywords for description of this sequence and for the sequence of the other extremity of this insert. FEATURES 1. 945 source (clone="BB0AA0320" /clone="BB0AA0320" /clone="BB0AA0320" /clone="BB0AA03" /clone="BB0AA03"	<pre>misc_feature / 100000000000000000000000000000000000</pre>	Oy35CATAATCTTGTCTGATTGTCTATTATCATACCTTCGGGGGAAATAGATGAAACCCT0y111 </td <td>SULT 9 S0757U/c CUS FINITION CESSION RSION RSION RSION CUSCE CONCON</td> <td><pre>OKGANISM KLUYVEYEMCGE LaCLIS Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes; Saccharomycetales; Saccharomycetaceae; Kluyveromyces lacetaryota; Lo 845) AUTHORS Souciet.J.L., Aigle,M., Artiguenave,F., Blandin,G., Bolotin-Fukuhara,M., Bon,E., Brottier,P., Casaregola,S., de-Montigny,J., Neuveglise,C., Ozier-Kalogeropoulos,O., Potier,S., Saurin,W., Tekaia,F., Toffano-Nioche,C., Wesolowski-Louvel,M., Wincker,P. and Weisesbach,J.</pre></td> <td><pre>TITLE Genomic exploration of the hemiascomycetous yeasts: 1. A set of yeast species for molecular evolution studies JOURNAL PEBS Lett. 487 (1), 3-12 (2000) MEDLINE 20584711 PUBWED 11152076 NETRENCE 2 (bases 1 to 845) AUTHORS Dolotin-Fukuhara,M., Toffano-Nioche,C., Artiguenave,F., Nontrocher,F., Duchateau-Nguyen,G., Lemaire,M., Marmeisse,R., Montrocher,R., Nontraceau-Nguyen,G., Lemaire,M., Marmeisse,R., Montrocher,R., Rilyveromyces lactis JOURNAL FEBS Lett. 487 (1), 66-70 (2000) MEDLINE 20584721 PUBMED 1115286 REPERENCE 3 (bases 1 to 845)</pre></td>	SULT 9 S0757U/c CUS FINITION CESSION RSION RSION RSION CUSCE CONCON	<pre>OKGANISM KLUYVEYEMCGE LaCLIS Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes; Saccharomycetales; Saccharomycetaceae; Kluyveromyces lacetaryota; Lo 845) AUTHORS Souciet.J.L., Aigle,M., Artiguenave,F., Blandin,G., Bolotin-Fukuhara,M., Bon,E., Brottier,P., Casaregola,S., de-Montigny,J., Neuveglise,C., Ozier-Kalogeropoulos,O., Potier,S., Saurin,W., Tekaia,F., Toffano-Nioche,C., Wesolowski-Louvel,M., Wincker,P. and Weisesbach,J.</pre>	<pre>TITLE Genomic exploration of the hemiascomycetous yeasts: 1. A set of yeast species for molecular evolution studies JOURNAL PEBS Lett. 487 (1), 3-12 (2000) MEDLINE 20584711 PUBWED 11152076 NETRENCE 2 (bases 1 to 845) AUTHORS Dolotin-Fukuhara,M., Toffano-Nioche,C., Artiguenave,F., Nontrocher,F., Duchateau-Nguyen,G., Lemaire,M., Marmeisse,R., Montrocher,R., Nontraceau-Nguyen,G., Lemaire,M., Marmeisse,R., Montrocher,R., Rilyveromyces lactis JOURNAL FEBS Lett. 487 (1), 66-70 (2000) MEDLINE 20584721 PUBMED 1115286 REPERENCE 3 (bases 1 to 845)</pre>

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reg scolumn: 11 stop: 728. [ifiers a mays" a m	<pre>Duery Match 17.4%; Score 33.4; DB 8; Length 728; Best Local Similarity 62.7%; Pred. No. 18; Matches 52; Conservative 0; Mismatches 31; Indels 0; Gaps 110 TTCGCAGAAACATCGCTAGTATCATTGATCACAACATGGACTAAGCAAAAGTGCTTGTC 110 TTCGCAGAAACATCGCTAGTATCATTGATCACAACATGGACTAAGCAAAAGTGCTTGTC</pre>		CCUS CCUS CCUS DEFINITION A0932B01-5 NIA Mouse Embryonic Stem (ES) cell (Lif+, 48 h, high density) cDNA library (Long) Mus musculus cDNA clone NIA:A0932B01 IMAGE:30769836 5', mRNA sequence. ACCESSION CN673288.1 GI:47439739 VERSION CN673288.1 GI:47439739 KEYWORDS EST. SOURCE Mus musculus (house mouse) COCNTCM Mus musculus (house mouse)		TITLE Transcriptome analysis of mouse stem cells and early embryos JOURNAL PLOS Biol. 1 (3), 410-419 (2003) COMMENT Contact: Dawood B. Dudekula National Institute on Aging/National Institutes of Health 331 Cassell Drive, Suite 4000, Baltimore, MD 21224-6820, USA Email: cdna@lguun.grc.nia.nih.gov Plate: A0932 row: B column: 01 Seg primer: M13 Reverse High quality sequence stop: 449 POLYAANO.	FEATURES Location/Qualifiers source 1.449 /organism="Mus musculus"
Tel: 301 402 3452 Fax: 301 402 345 Fax: 301 402 345 Fax: 301 402 345 Fax: 301 402 Fax: 301 402 Fax: 301 404 Fax: 301 404 Fax: 4000 400 Fax: 4000 4000 4000 Fax: 4000 4000 4000 4000 4000 4000 4000 40	<pre>chttp://www.invitrogen.com/>). The library code designation was cs. For this library, cDNA inserts were cloned into the Norl/Mlui sites of the vector. EST analysis was performed on the unamplified library at the NIH Intramural Sequencing Center (NISC)."</pre>	Query Match17.4%Score 33.4; DB 6; Length 494;Best Local Similarity52.5%; Pred. No. 17;66; Indels0; GapsMatches73; Conservative0; Mismatches66; Indels0;Qy42 TTGTCTGATTCTTCAATACCTTCGGGGAAATAGATGGTGAAAAACCCTTATAAAA101Db7 TTTTCTAACTTTGCCTCCAAGCCTAAAAGCAATGAATGAA	Qy102CGCGGGGTTTTCGCGGAAAAGATGGGCTAGTAGTAGTAGTAGTAAAGGAAAAG1611611611611611611611611611611611621260716216216716216716316316316316316316116	RESULT 11 BH885133 BH885133 728 bp DNA linear GSS 05-AUG-2002 DEFINITION bw61c11.b1 WGS-ZmaysF (JM107 adapted methyl filtered) Zea mays DEFINITION bw61c11.b1 WGS-ZmaysF (JM107 adapted methyl filtered) Zea mays ACCESSION BH885133 G1212101 5', genomic survey sequence. ACCESSION BH885133.1 G1:22121030 VERSTON BH885133.1 G1:22121030 KEYWORDS GSS. SOURCE Zea mays DRATYOLA VIridiplantae; Streptophyta; Embryophyta; Tracheophyta;	<pre>a; Magnoliophyta; Liliopsida; Poales; Poc coideae; Andropogoneae; Zea. coideae; Andropogoneae; Zea. coideae; Andropogoneae; Zea. coideae; Muller, Bullar, S., Nasci F., King, L., Miller, B., Muller, S., Nasci F., King, L., Miller, B., Muller, S., Nasci F., King, L., Miller, Buller, S., Nasci Recombie, W.R. and Martienssen, R.A. (2002) Richard McCombie Richard McCombie Richard Chonwe Sequencing Center Harbor Laboratory</pre>	PO Box 100, Cold Spring Harbor, NY 11724, USA Tel: 516 367 8884 Fax: 516 367 8874

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JOURNAL method JOURNAL Genome Res. 11 (9) MEDLINE 21429098 PUBMED 11544199 CONMENT Contact: Dawod B. Laboratory of Gene National Institute Baail: Canaelgeun. Plate: B0768 row: Seq Primer: M13 Re High quality seque	FEATURES FOURARIO Location/ Source /mol_type /mol_type /mol_type /mol_type /mol_type /mol_type /mol_type /sex="mal /dbr_ref=	2.5 ug off	ECD LOUGE SEPARATE CDNAS WEL EX TAG DO DYDOLOCIA	ipour The and clone vector. 1 ligation	average i construct ORIGIN	Query Match 17.3 Best Local Similarity 52.1 Matches 74; Conservative	N	Db 333 GGATTAAAGCTT Db 333 GGATTTAAAGTTCTC	QY 140 GACAACATGGACTAAC	Db 393 AACAATGAAGAAGAAG
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<pre>ML defined ML Genome Res. 11 (9), 1553-1558 (2001) (SE 2142908 (SE 11544199 Contact: Dawood B. Dudekula Laboratory of Genetics National Institute on Aging/National Institutes of Health National Institute on Aging/National Institutes of Health Sassell Drive, Suite 4000, Baltimore, MD 21224-6820, USA Email: cdna@lgsun.grc.nia.nih.gov Plate: B0768 row: E column: 01 Seq primer: M13 Reverse High quality sequence stop: 467 POLYA=NO.</pre>	9 27 24	<pre>Y Match 17.3%; Score 33.2; DB 7; Length 467; Local Similarity 52.1%; Pred. No. 19; nes 74; Conservative 0; Mismatches 68; Indels 0; Gaps 0;</pre>	20 aagreggetragcanaart 79 21 1111 1111 1111 273 aagreggeggeggetraggeggetreggeggegggegggggggggg
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/motestructure: pCMV-SPORT6 (Invitrogen); Site_1: Sal1; Site_2: Not1; Mouse cDNA project by the laboratory of Genetics, National Institute on Aging (NIA), Intramural Research Program, NIH (http://Igsun.grc.nia.nih.gov/DNA). This is a long-transcript enriched cDNA library (Ref. Genome Res. 11: 1553-1589 (2001). [PMID: 11544199]). Total RNAS were extracted from a pool of 16 embryos at 9.5-days postcoitum. Double-stranded cDNAs were synthesized with an Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 501) Piao, Y., Ko.N.T., Lim,M.K. and Ko,M.S.H. Construction of Long-transcript enriched cDNA libraries from Eubmicrogram amounts of total RNAs by a universal PCR amplification CD552026 501 bp mRNA linear EST 11-JUN-2003 B0337C08-5 NIA Mouse E9.5 Whole Embryo CDNA Library (Long) Mus musculus CDNA clone NIA:B0337C08 IMAGE:30432607 5', mRNA sequence. /tissue type="89.5 whole embryo" /dev stage="whole embryo" at 9.5-days postcoitum" /lab_host="DH108"

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 1 80 AGATGTGAAAACCCTTATAAAACGCGGGTTTTTCGCAGAAACATGCGCTAGTATCATTGAT 139 333 GGATTTAAAGTTCCTCTTACAACACCTCATTTGGAAAAGAGATACTCGATTCAGTTCGGG 392 /clone_lib="NIA Mouse E9.5 Whole Embryo cDNA Library (Long)" Contact: Dawood B. Dudekula Laboratory of Genetics National Institutes of Health 333 Cassell Drive, Suite 4000, Baltimore, MD 21224-6820, USA Email: cdna@19sungrc.nia.nih.gov Plate: B0337 row: C column: 08 /db_xref="niaEST:B0337C08-5" /db_xref="taxon:10090" /clone="NIA:B0337C08 IMAGE:30432607" Genome Res. 11 (9), 1553-1558 (2001) 'organism="Mus musculus" Seq primer: M13 Reverse High quality sequence stop: 501 POLYA=NO. Location/Qualifiers 140 GACAACATGGACTAAGCAAAAG 161 393 AACAATGAAGAAGAAGAAGAAGAAG 414 /mol_type="mRNA" /strain="C57BL/6J" Mus musculus (house mouse) CD552026.1 GI:31599757 .501 Mus musculus 21429098 11544199 CD552026 method EST. source DEFINITION ORGANISM MEDLINE PUBMED COMMENT AUTHORS TITLE ACCESSION VERSION KEYWORDS SOURCE RESULT 15 REFERENCE JOURNAL FEATURES CD552026 LOCUS δ g 8 g 01900(dT) primer [Invitrogen: 01900(dT) primer [Invitrogen: 9.1 ug of total RNA, treated with T4 DNA polymerase, and purified by tehanol-precipitation. The CDNAs were ligated to Lone-linker LL-Sal4, purified by phenol/chloroform, and separated from free linkers by Centricon 100. Then, the CDNAs were amplified by long-range high fidelity PCR using EX Taq polymerase (Takara) with a primer Sal4-S. The products were purified by phenol/chloroform and Centricon 100. The CDNAs were digested with Sal1 and NoLI enzymes and cloned into Sal1/NoLI site of pSPORTI plasmid vector. The DHOB E. colinber was transformed with the ligation mixture by the standard chemical method. The average insert size is about 2.5 kb. The library was constructed by Yulan Piao (NIA)." /note="vector: pspORT1 (Invitrogen); Site_1: Sal1; Site_2: Not1; Mouse cDNA project by the Laboratory of Genetics." Not1: Mouse cDNA project by the Laboratory of Genetics. Program, NIH (http://jsun.grc.nia.nih.gov/cDNA). This is a long-transcript enriched cDNA library [Ref. Genome Res. 11: 1533-1558 (2001). [PMID: 11544199]). Total RNAS were extracted from a pool of 13 embryos at 8.5-Gays postcoitum. Double-stranded cDNAs were synthesized with an Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 493) 2 (bases 1 to 493) 3 (bases 1 to ö EST 29-DEC-2003 CK391130 493 bp mRNA linear EST 29-DEC-200 K0827F01-5 NIA Mouse 8.5-dpc Whole Embryo CDNA Library (Long) Mus musculus CDNA clone NIA:K0827F01 IMAGE:30080988 5', mRNA sequence. CK391130 20 AAGTGGCTTGACAAGCATAATCTTGTCTGATTCGTCTATTTTCAATACCTTCGGGGAAAT 79 clone lib="NIA Mouse 8.5-dpc Whole Embryo cDNA Library" المصمرات Gaps Laboratory of Genetics National Institute on Aging/National Institutes of Health 333 Cassell Drive, Suite 4000, Baltimore, MD 21224-6820, USA /clone="NIA:K0827F01 IMAGB:30080988" /clone="NIA:K0827F01 IMAGB:30080988" /tissues type="whole embryo including extraembryonic tissues at 8.5-days postcoitum" /dev fage="8.5-days postcoitum" /lab_host="DH108" ;0 DB 7; Length 493; 68; Indels Query Match 17.3%; Score 33.2; DB Best Local Similarity 52.1%; Pred. No. 19; Matches 74; Conservative 0; Mismatches /mol_type="mRNA" /strain="C57BL/6J" /db_xref="niaEST:K0827F01-5" /db_xref="taxon:10090" Genome Res. 11 (9), 1553-1558 (2001) Email: cdna@lgsun.grc.nia.nih.gov Plate: K0827 row: F column: 01 Seq primer: M13 Reverse High quality sequence stop: 493 /organism="Mus musculus" Location/Qualifiers Contact: Dawood B. Dudekula Mus musculus (house mouse) Mus musculus CK391130.1 GI:40381649 I. .493 (Fong) POLYA=No. 21429098 11544199 method EST BOULCE SOURCE ORGANI SM Best Loca Matches LOCUS DEFINITION REFERENCE AUTHORS TITLE JOURNAL MEDLINE PUBMED COMMENT ACCESSION VERSION KEYWORDS RESULT 14 CK391130 FEATURES ORIGIN 5

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digested with Sall and NotI enzymes and cloned into Sall/NotI site of pCMV-SPORT6 plasmid vector. The DH10B E. coli host was transformed with the ligation mixture by the standard chemical method. The average insert size is about 3.0kb. The library was constructed by Yulan Piao."

Ouery Match 17.3%; Score 33.2; DB 6; Length 501; Best Local Similarity 52.1%; Pred. No. 20; Matches 74; Conservative 0; Mismatches 68; Indels 0; Gaps 0 OY 20 AAGTGGCTTGAACAAAATCTTGATTAGTTATTATCAATAACCTTCGGGGAAAAT 79

ORIGIN

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 Qy
 80
 AGATGTGAAAACCCTTATAAAACGGGGGTTTTCGCAGAAACATGGCTAGTATGAT
 139

 Db
 333
 GGATTTAAAGTTCCTCTTACAACACCCCCTCATTTGGAAAGGAGATACTCGATTCAGTTCGGG
 392

db 333 gdatrtaalgerectertacaacaceercatrtggaaaagagatac Qy 140 gacaacarggeeraagg 161

Db 393 AACAATGAAGAAGAAGAAGAAGAAG 414

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